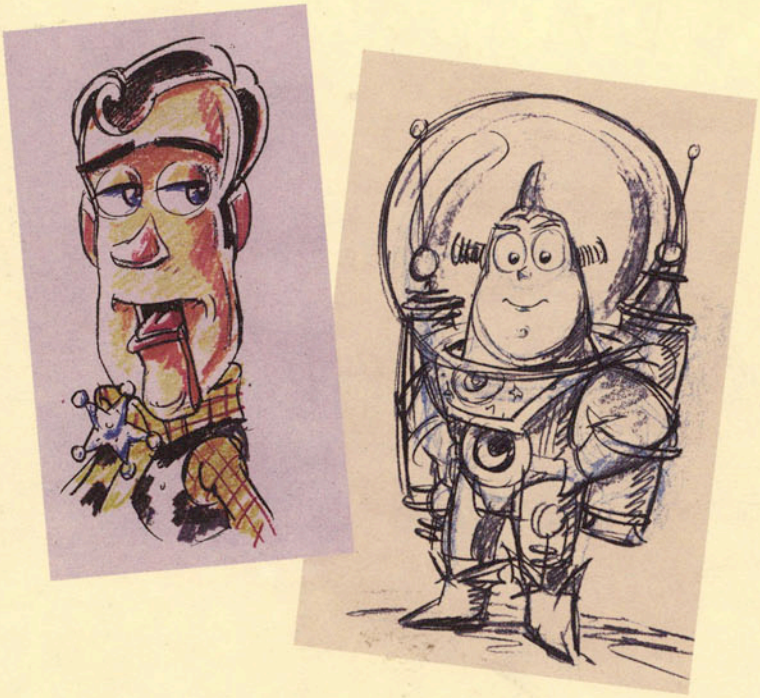
Disney · PIXAR

TOY STORY



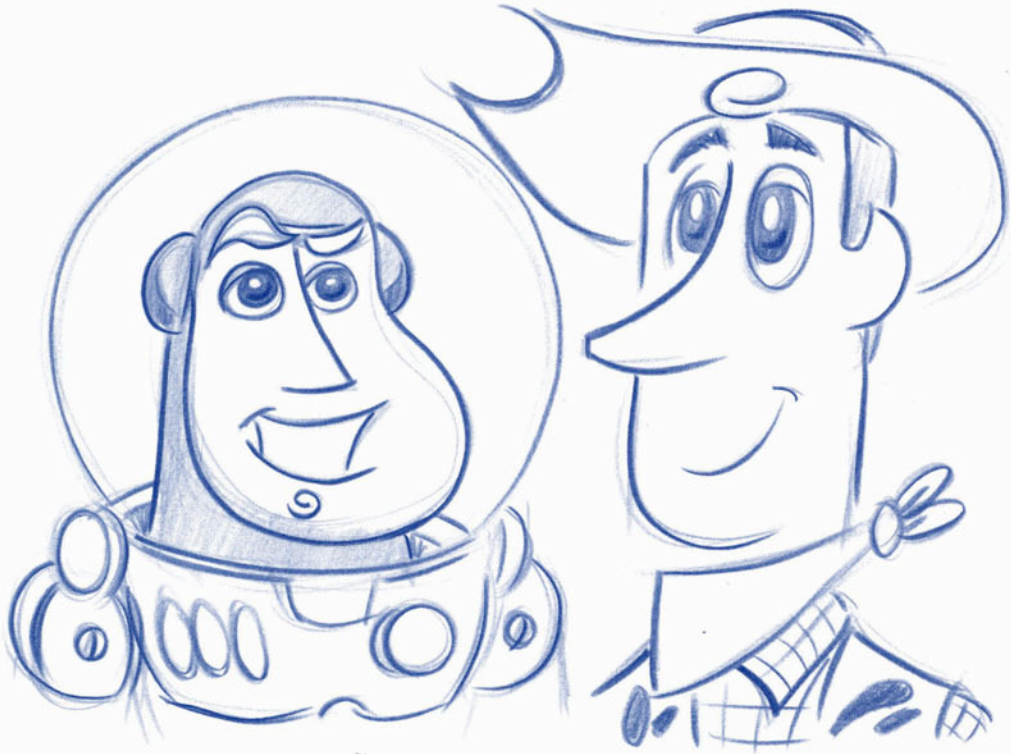
THE SKETCHBOOK SERIES

- SKETCH BOOK

This sketchbook celebrates the work of the artists who provided concepts, inspiration, and character studies for the feature films *Toy Story* and *Toy Story 2*:

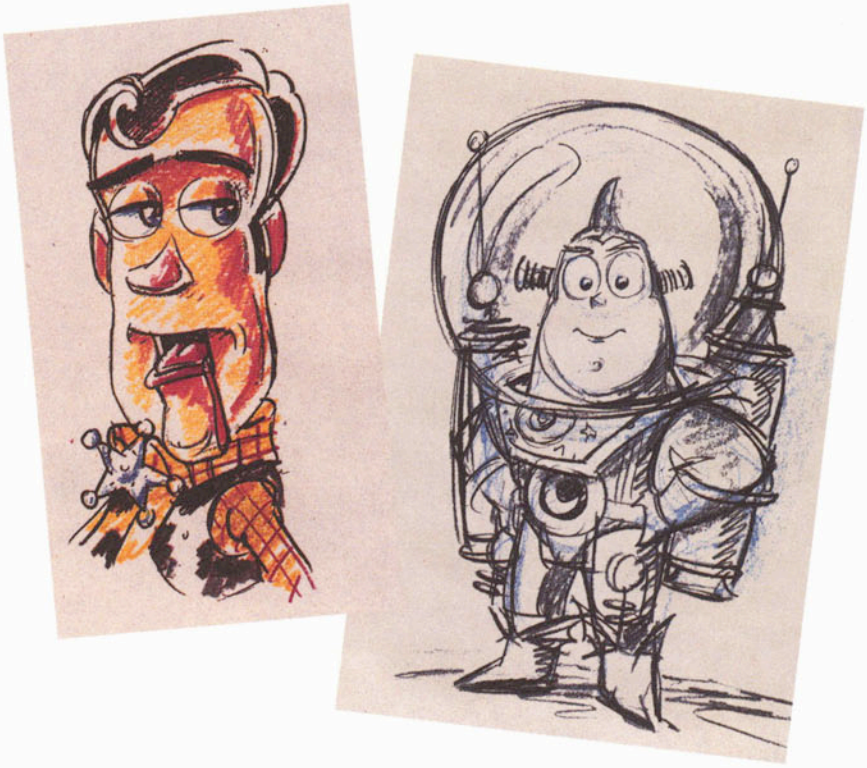
Randy Berrett
Geefwee Boedoe
Ash Brannon
Jim Capobianco
William Cone
Jill Culton
Pete Docter
Ralph Eggleston
David Fulp
Dave Gordon
Stephen Gregory
Kirk Hanson
Sean Hargreaves
Mark Holmes
Harley Jessup
Dan Jeup
William Joyce
Tia W. Kratter
John Lasseter
Dan Lee
Bud Luckey
Matthew Luhn
Angus Maclane
Nathaniel McLaughlin
Jon Mead
Paul Mica
Ken Mitchroney
Floyd Norman
Sanjay Patel
Bob Pauley
Jim Pearson
Bob Peterson
Laura Phillips
Jeff Pidgeon
Bobby Podesta
Joe Ranft
Nilo Rodis
Chris Sanders
Jeff Sangalli
Gary Schultz
David Skelly
Andrew Stanton
Doug Sweetland
Bud Thon
Tasha Wedeen

and the many others at Pixar Animation Studios who contributed their ideas and talents.

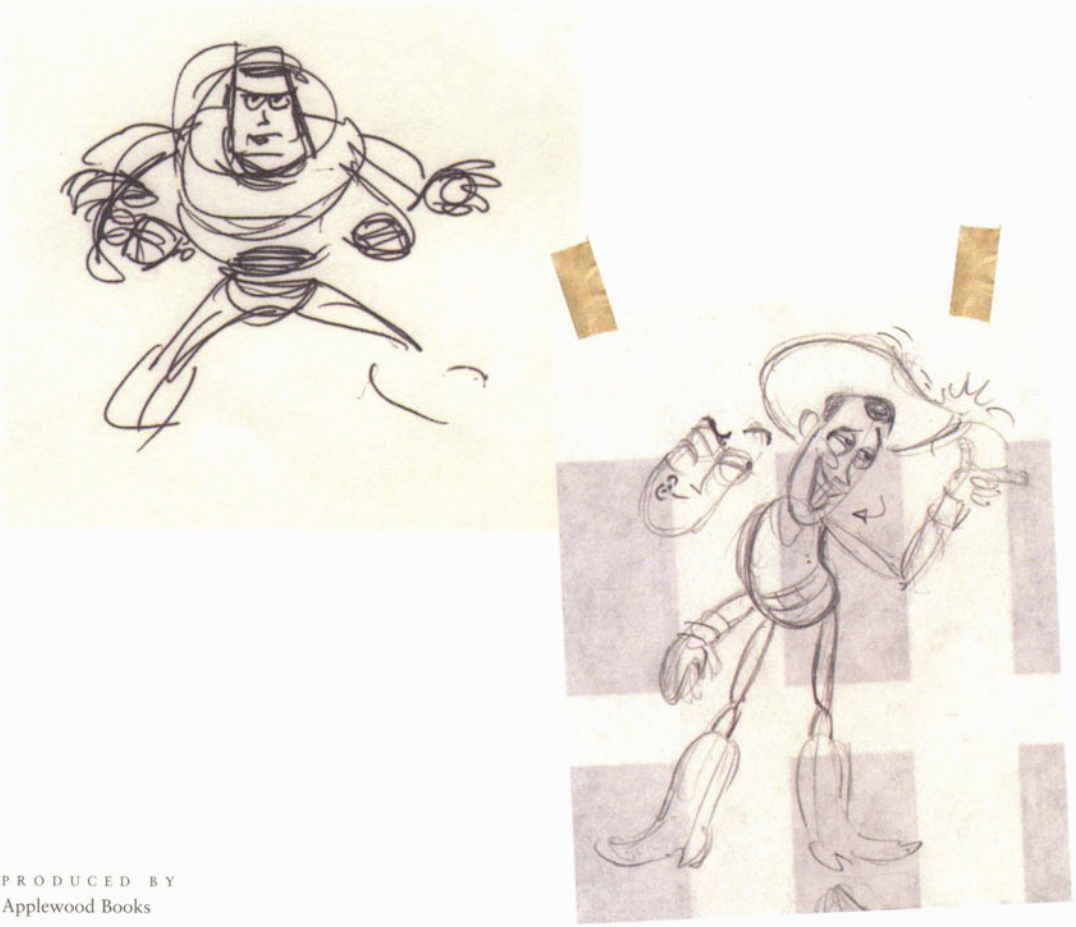


Disney · PIXAR

TOY STORY



APPLEWOOD BOOKS
Bedford, Massachusetts



PRODUCED BY
Applewood Books

DESIGN
Violeta Díaz

CREATIVE DIRECTION
John Lasseter + Jim Pearson

PROJECT MANAGEMENT
Leeann Alameda + Eric Huang

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Other books in the Sketchbook Series:
Walt Disney's *Snow White and the Seven Dwarfs*
Walt Disney's *Bambi*
Walt Disney's *Sleeping Beauty*
Disney's *The Little Mermaid*
Walt Disney's *Peter Pan*
Walt Disney's *Lady and the Tramp*

Art challenges technology

and technology inspires art.

– John Lasseter

When audiences watch *Toy Story* and *Toy Story 2*, they are seeing a completely believable world–a world they know does not exist, but that looks so real. This is one of the magical elements of our computer animation.

But the computers don't create computer animation any more than a pencil creates pencil animation. What creates computer animation is a very talented group of people. It begins not with a computer, but with drawings–hundreds and hundreds and hundreds of drawings.

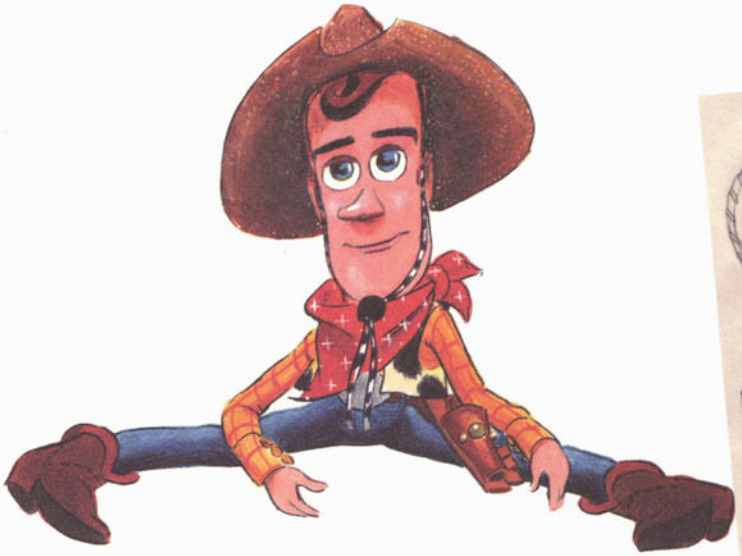
The story is created using storyboards done in the traditional way: pencil drawings on paper, pinned to a big bulletin board. The story tells us what characters, objects and sets need to exist to create the complete world of the film.

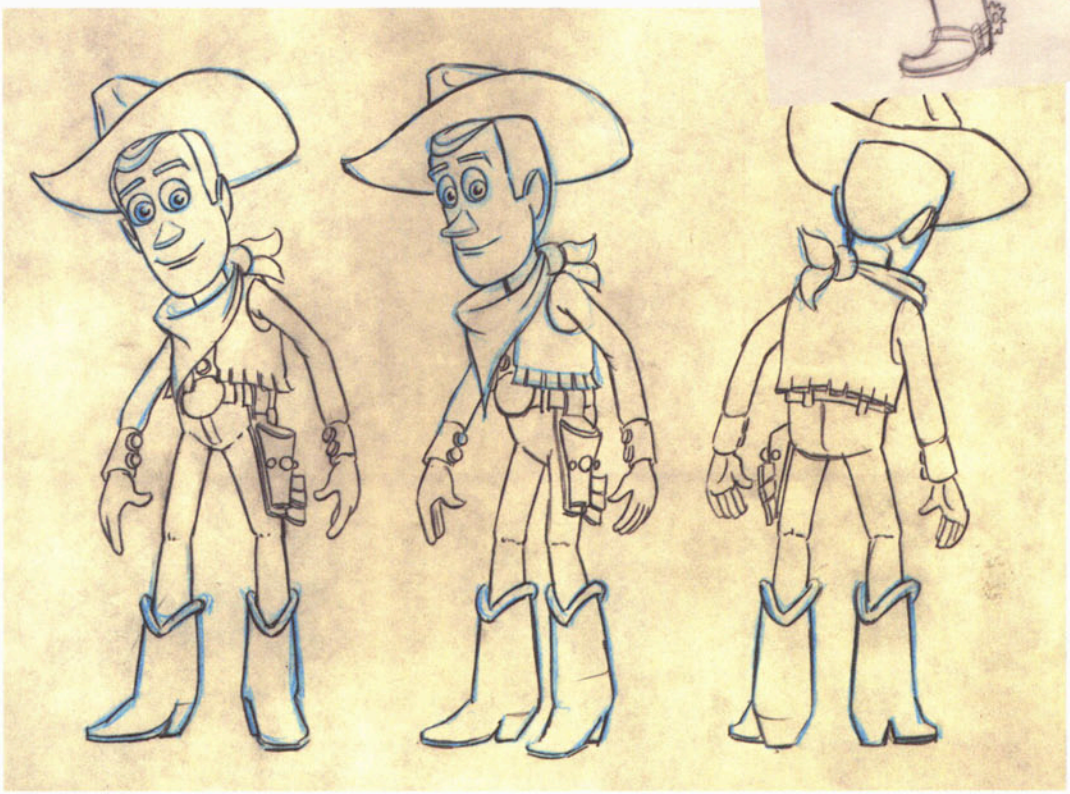
As the story evolves, everything you see on the screen has to be designed with pencil sketches, color drawings, pastels and paintings. Since the world we create within the computer is truly three-dimensional, we have to design what the back of everything looks like, as well as the front. Once a character, object or set is designed, we do a series of drawings–much like blueprints–to show every side of the models, so that they can be accurately created in the computer.

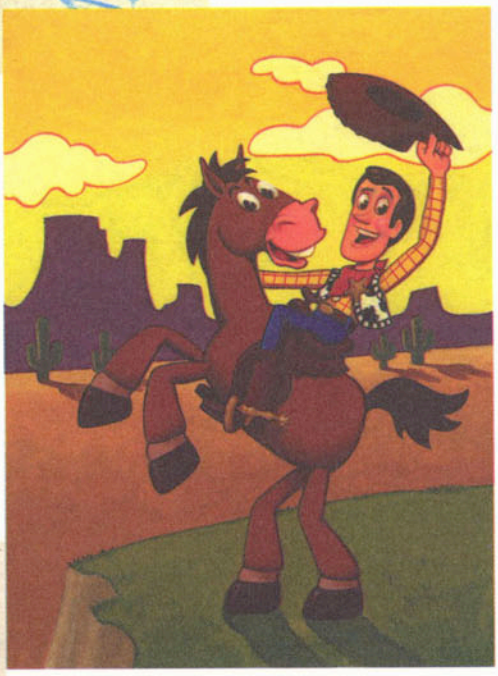
These drawings, storyboards, pastels and paintings used to design the *Toy Story* world are never seen by the audience, but they are some of Pixar Animation Studios' finest works of art. This sketchbook is a rare opportunity for you to see the *Toy Story* world before the computer touches it.

—JOHN LASSETER

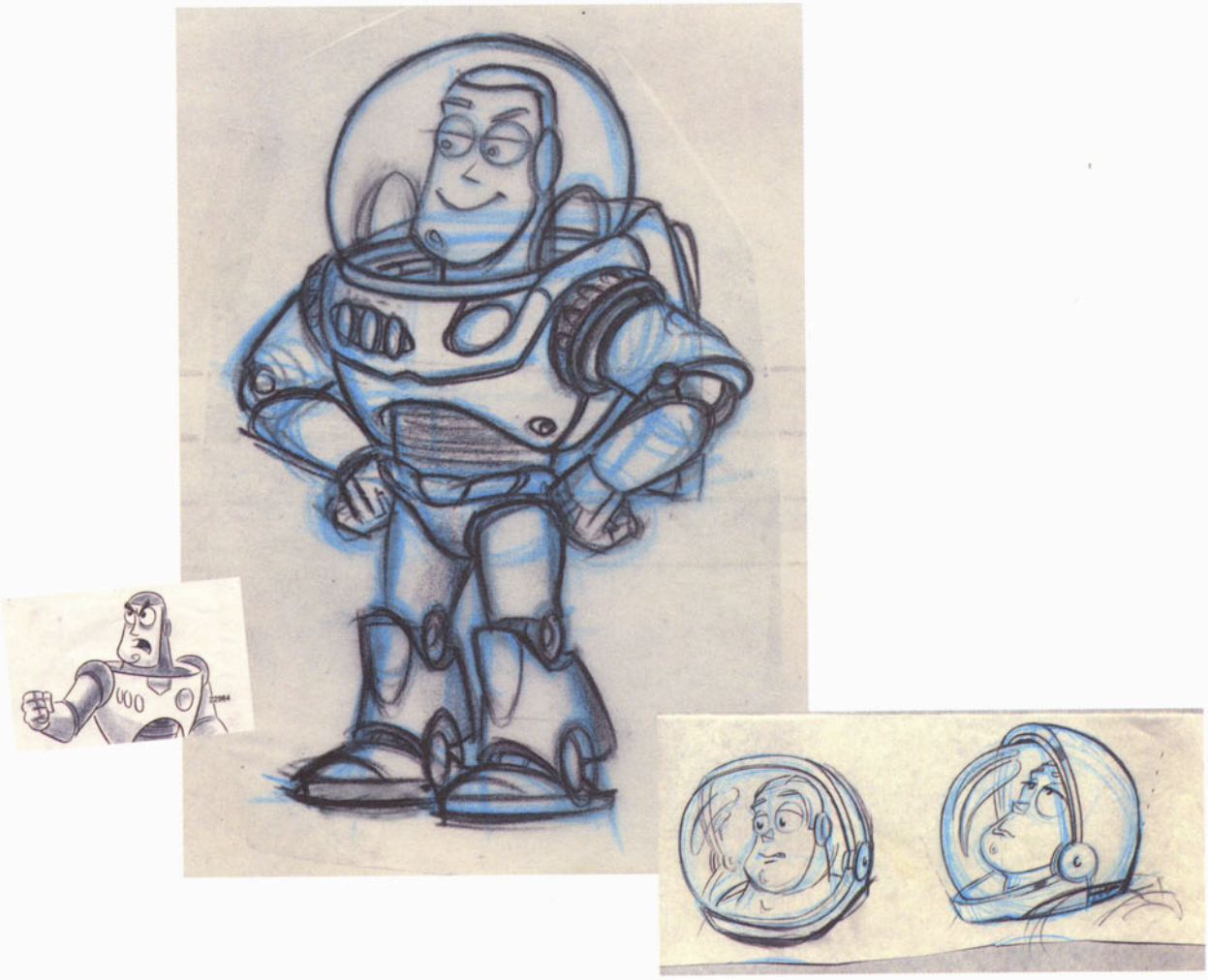
WOODY

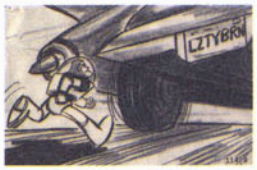


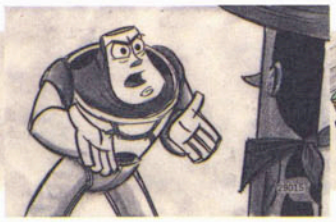


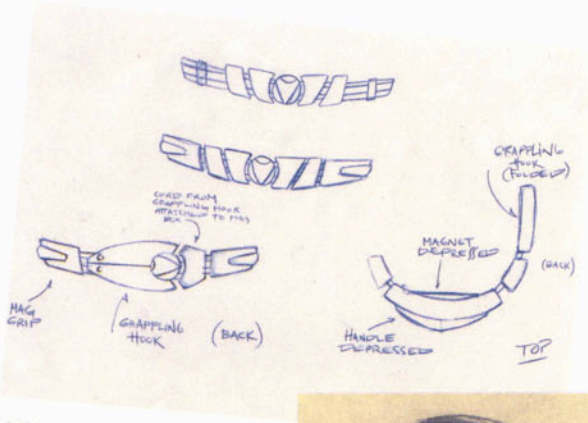


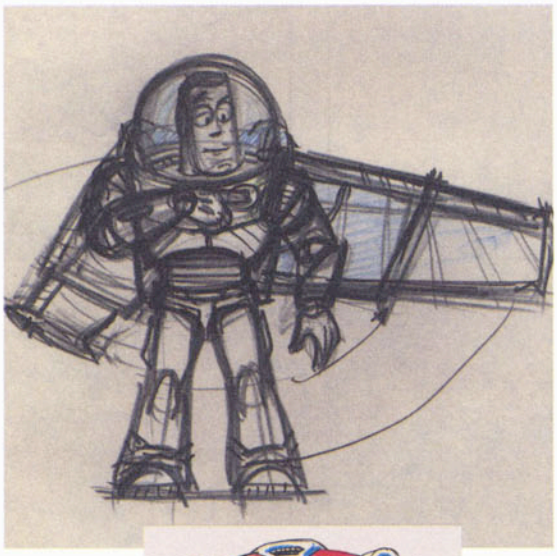
BUZZ LIGHTYEAR

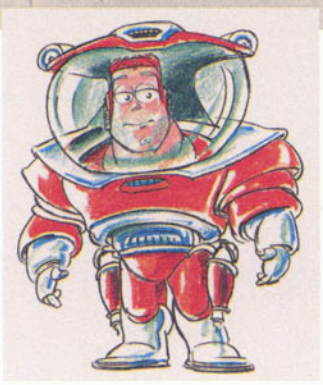


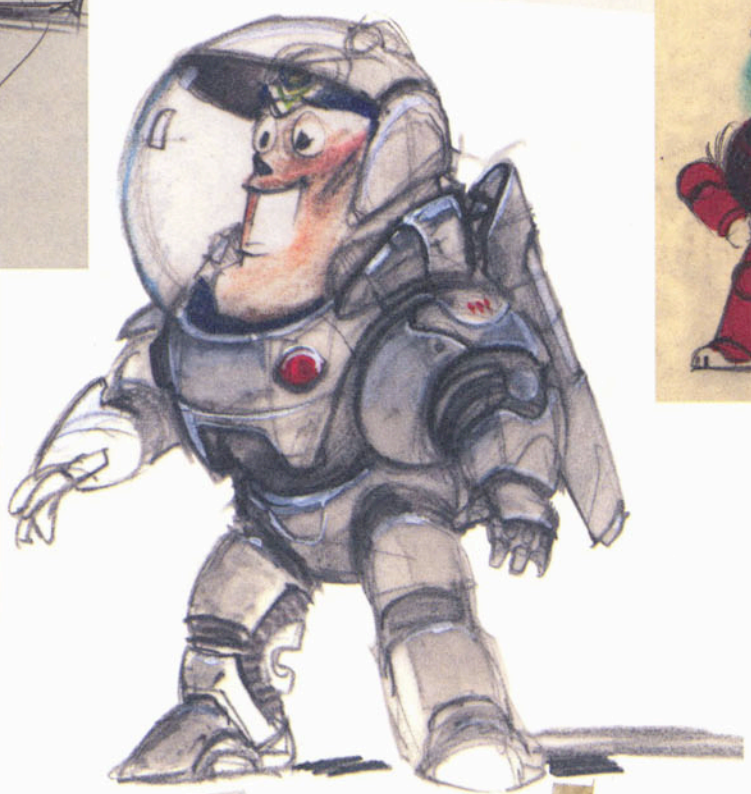

LZTYBRN

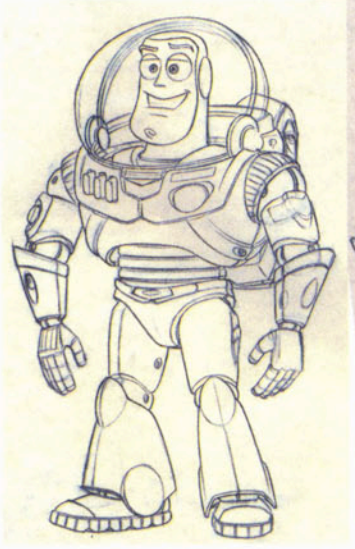


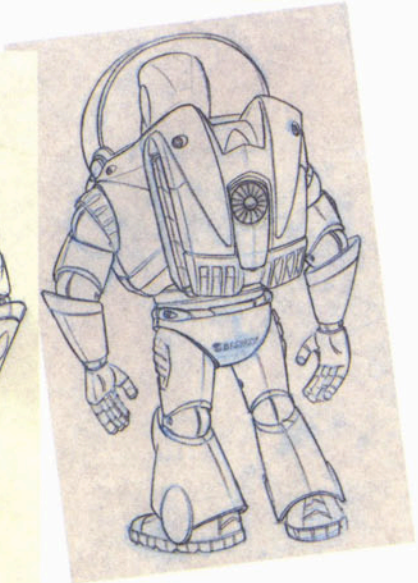

GRAPPLING HOOK (FOLDED)
CORD FROM GRAPPLING HOOK ATTACHES TO THIS AREA
MAGNET DEPRESSED
(BACK)
MAG GRIP
GRAPPLING HOOK
(BACK)
HANDLE DEPRESSED
TOP

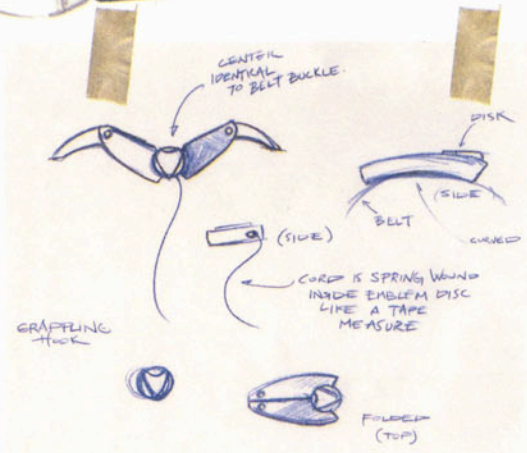


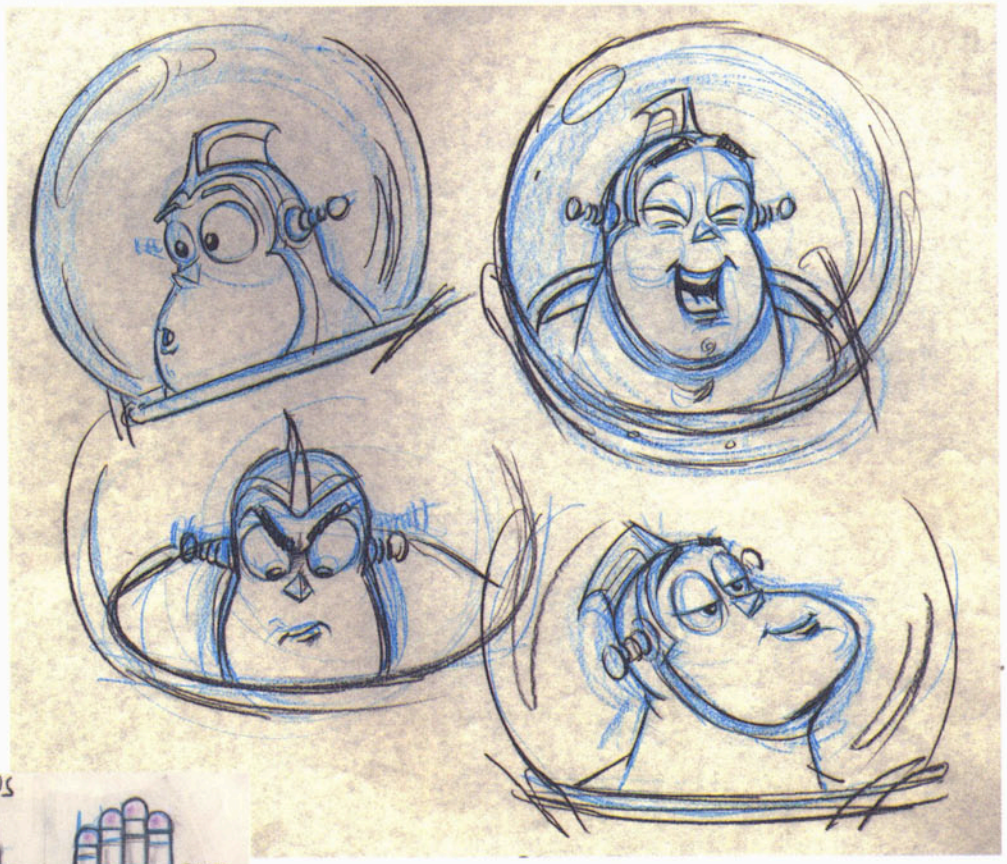


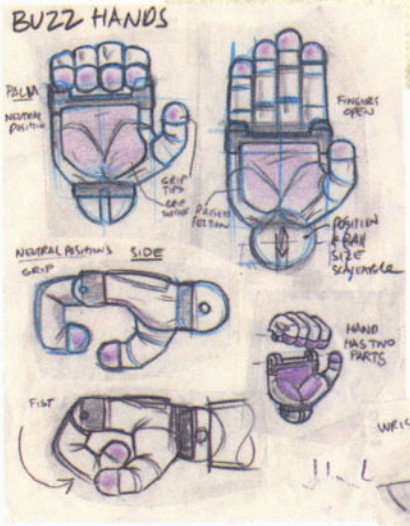


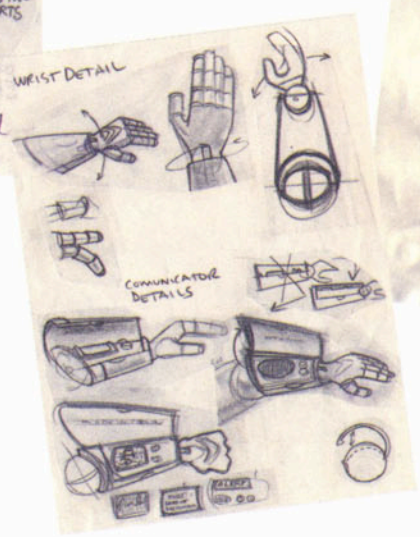


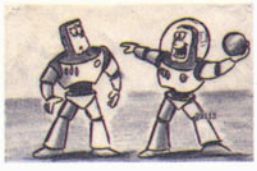


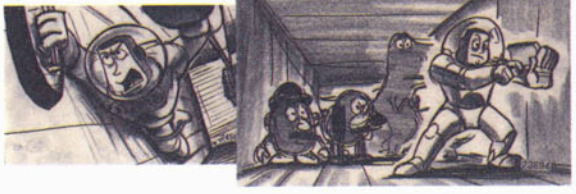

CENTER IDENTICAL TO BELT BUCKLE
DISK
(SIDE)
BELT
CURVED
(SIDE)
CORD IS SPRING WOUND INSIDE EMBLEM DISC LIKE A TAPE MEASURE
GRAPPLING HOOK
FOLDED (TOP)

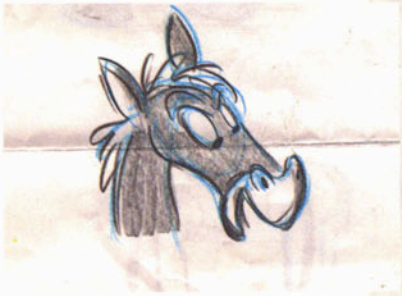


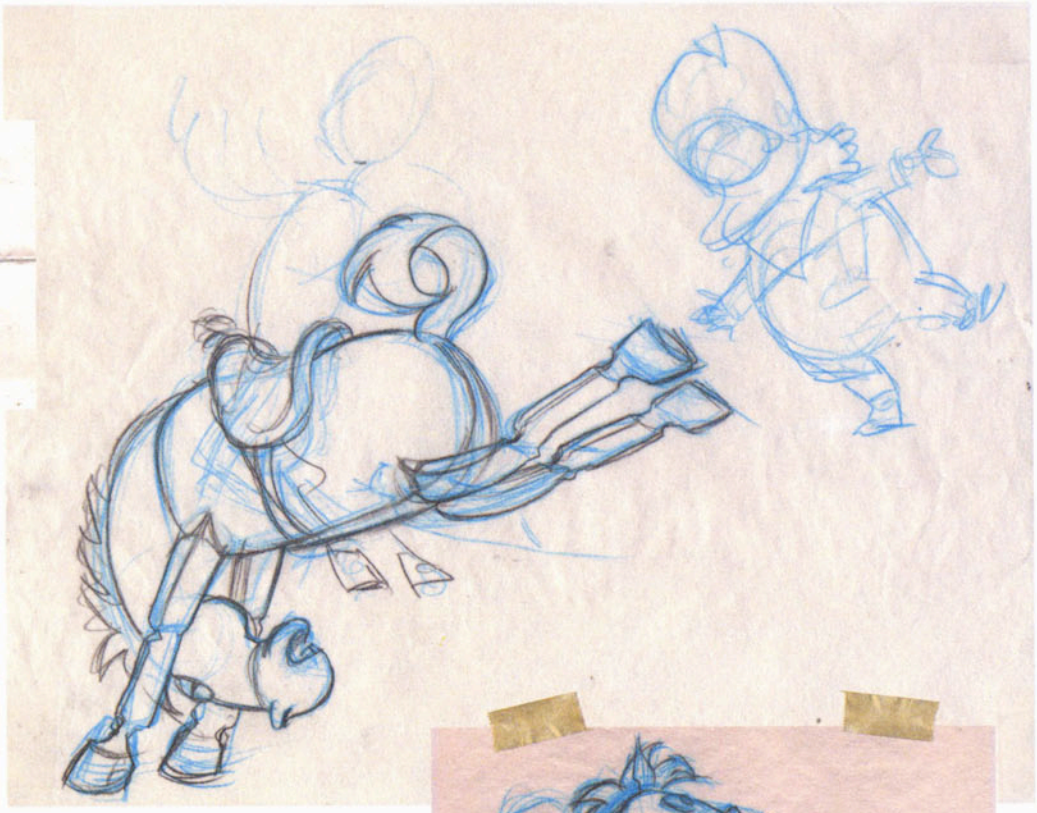

BUZZ HANDS
PALM
NEUTRAL POSITION
GRIP TIPS
FINGERS OPEN
POSITION & BALL SIZE SCALE/RATIO
NEUTRAL POSITION SIDE
GRIP
HAND HAS TWO PARTS
FIST

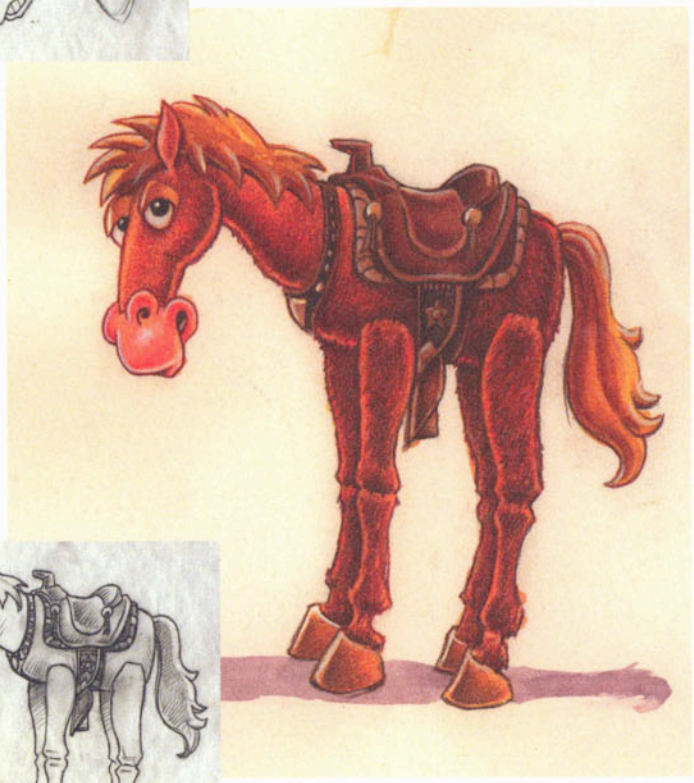

WRIST DETAIL
COMMUNICATOR DETAILS

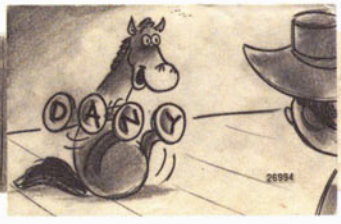


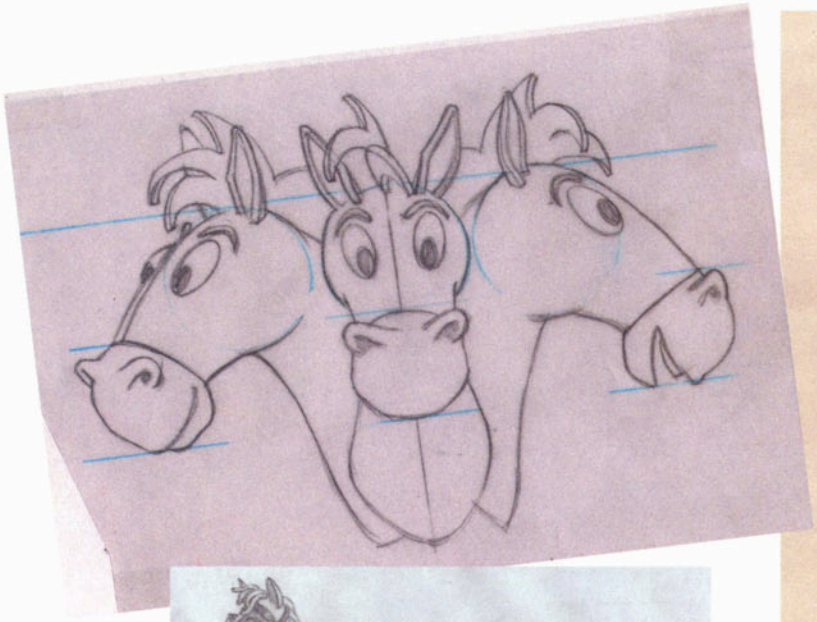


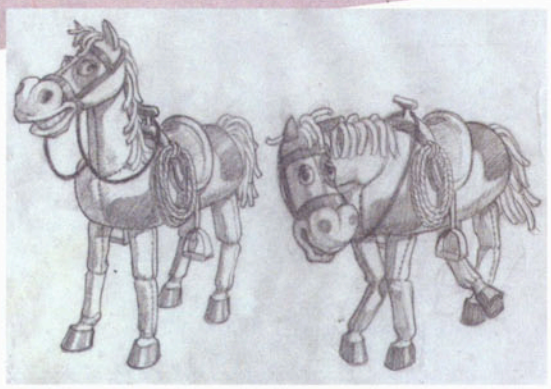


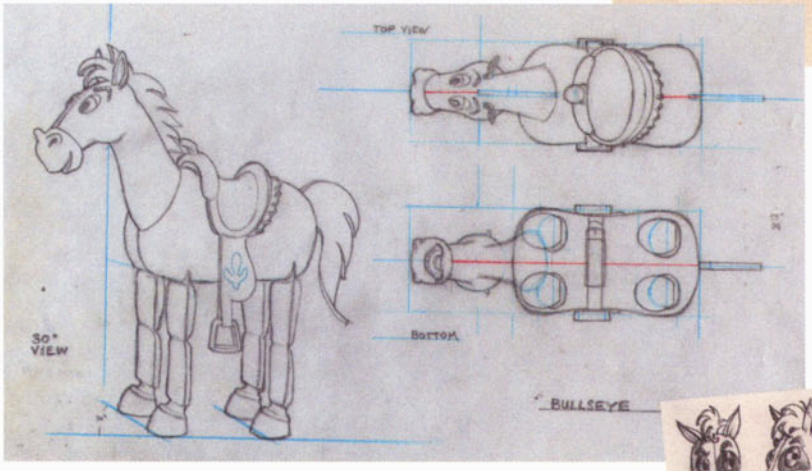


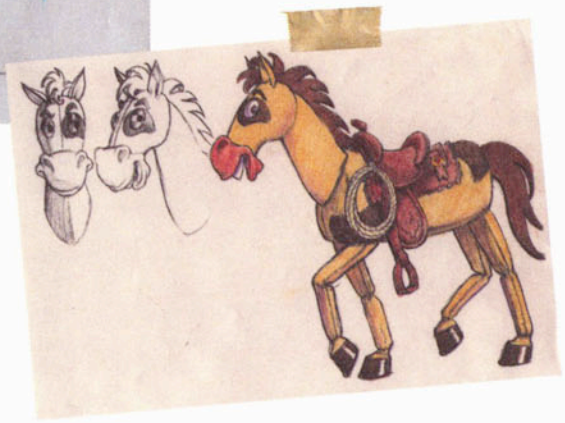



DANY

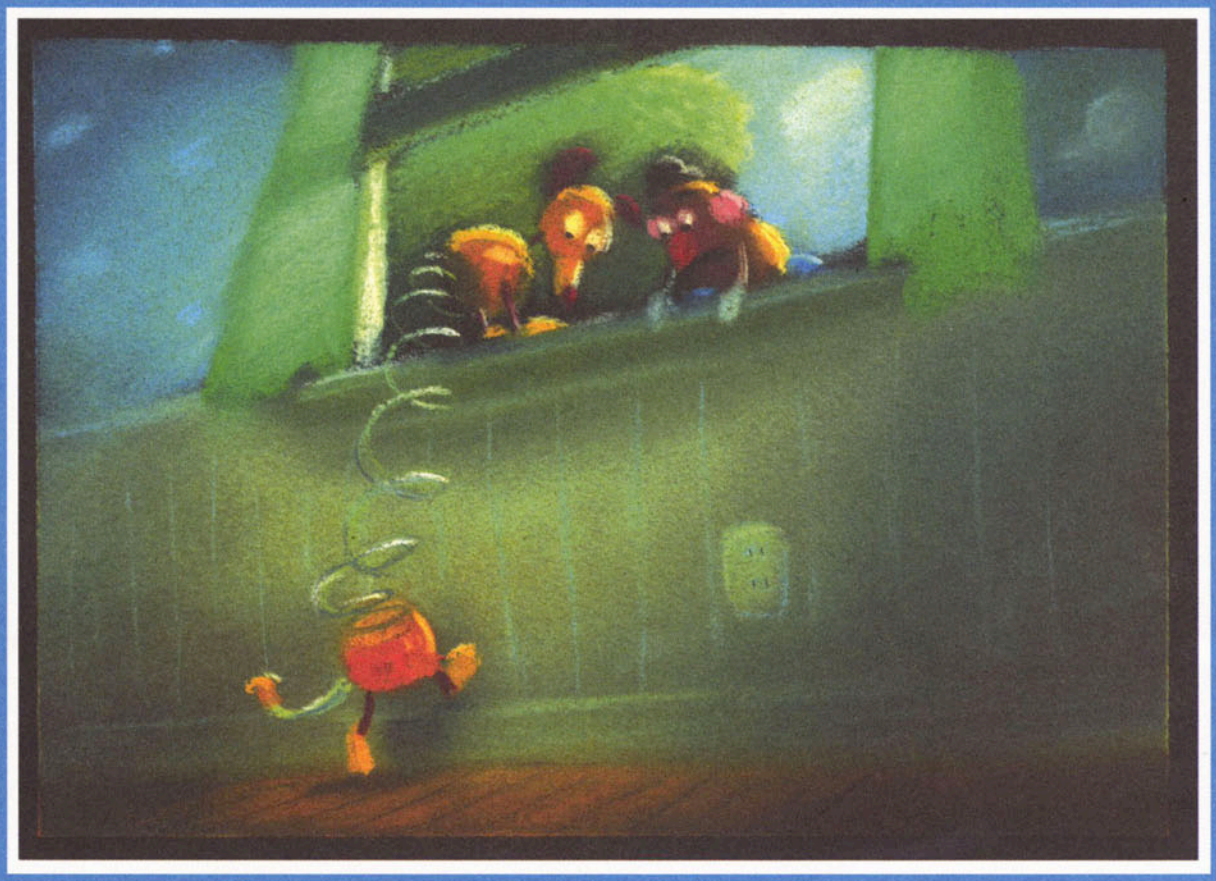




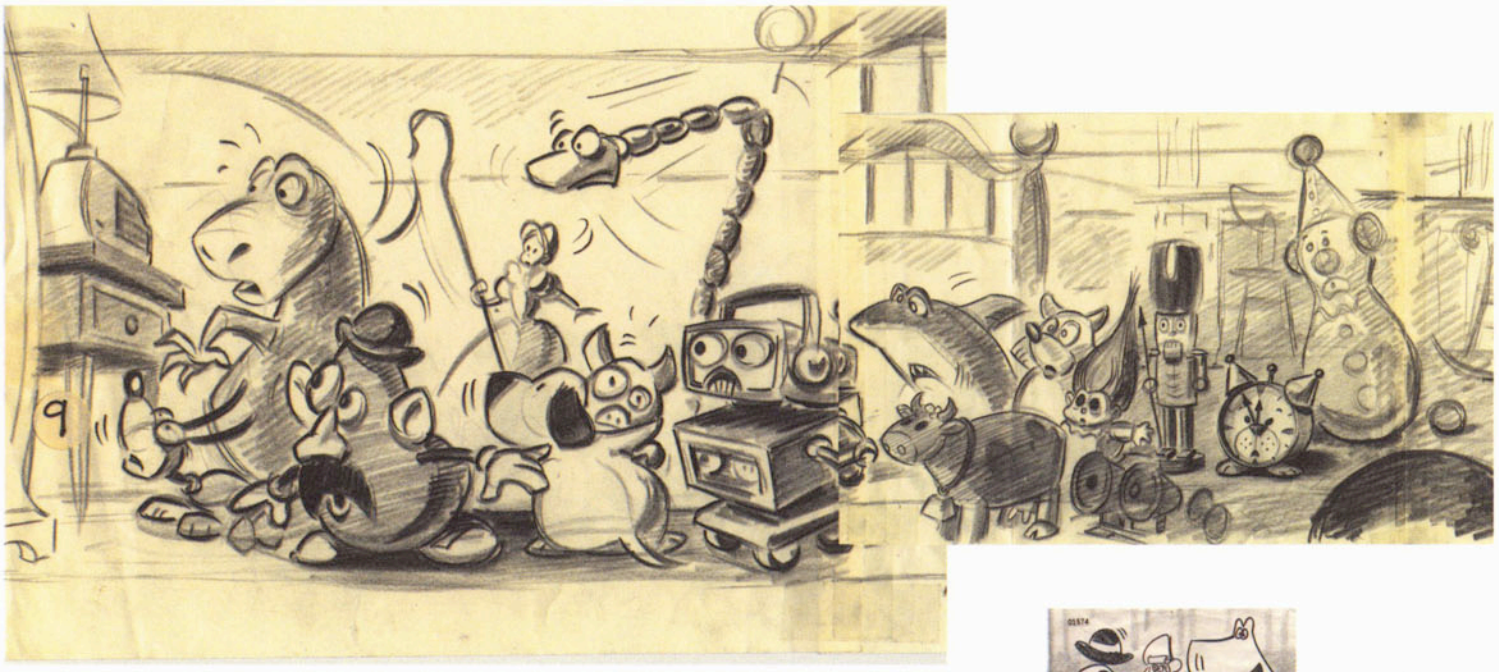

TOP VIEW
30° VIEW
BOTTOM
BULLSEYE



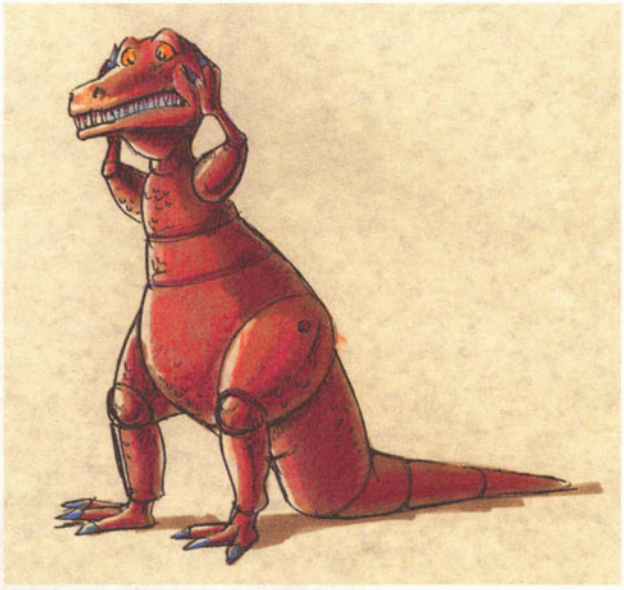
MELODY
ROUND UP

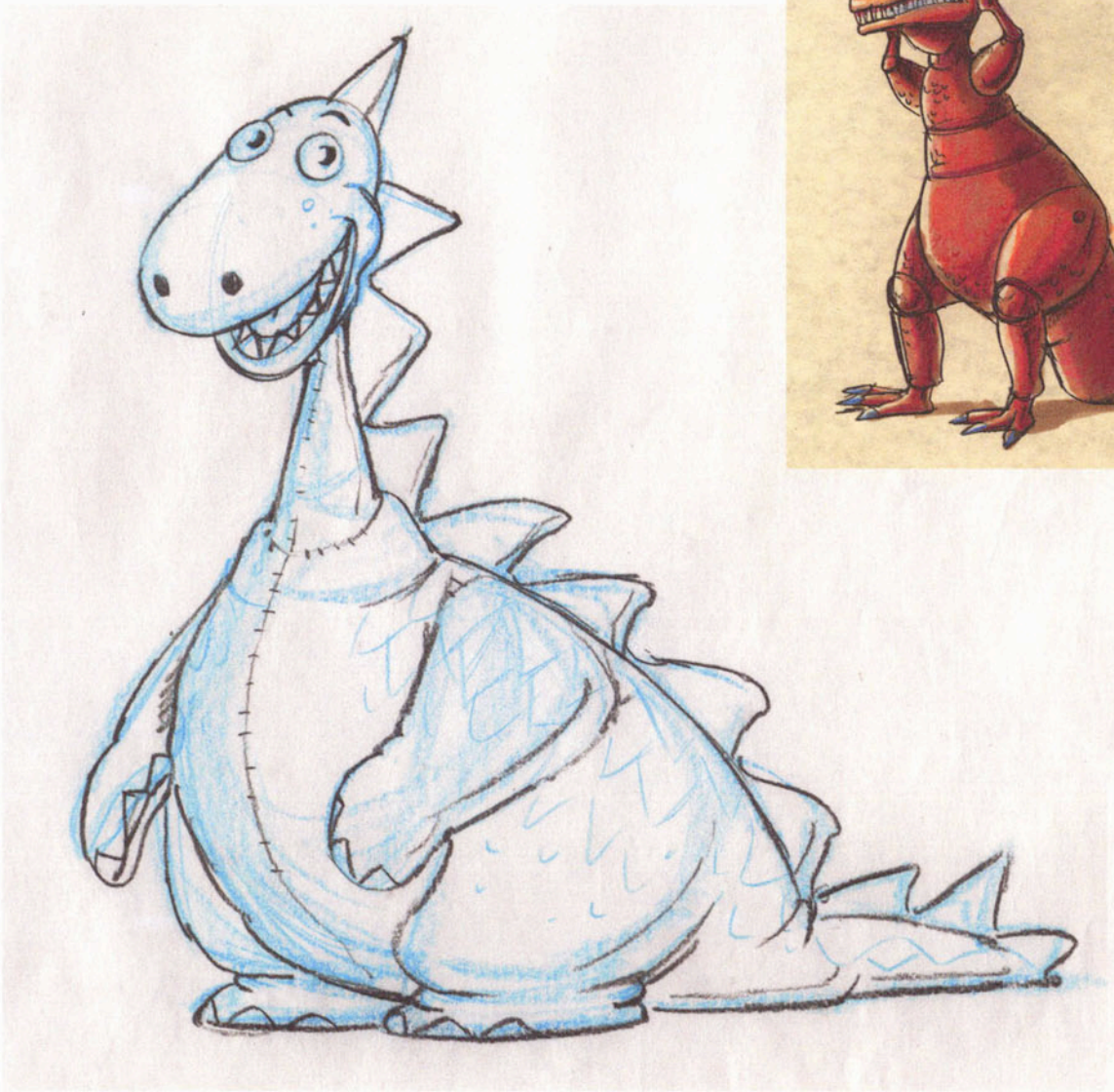


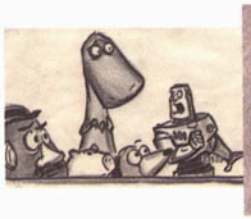
ANDY'S TOYS

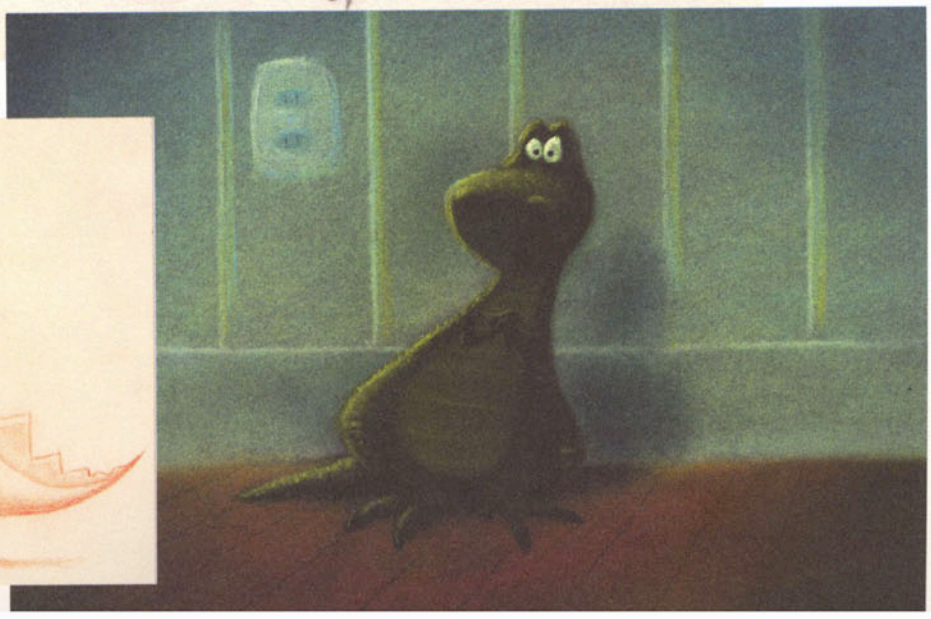


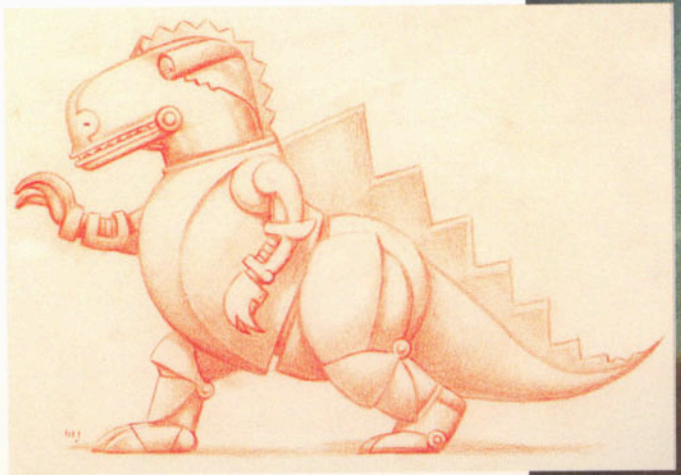
R E X



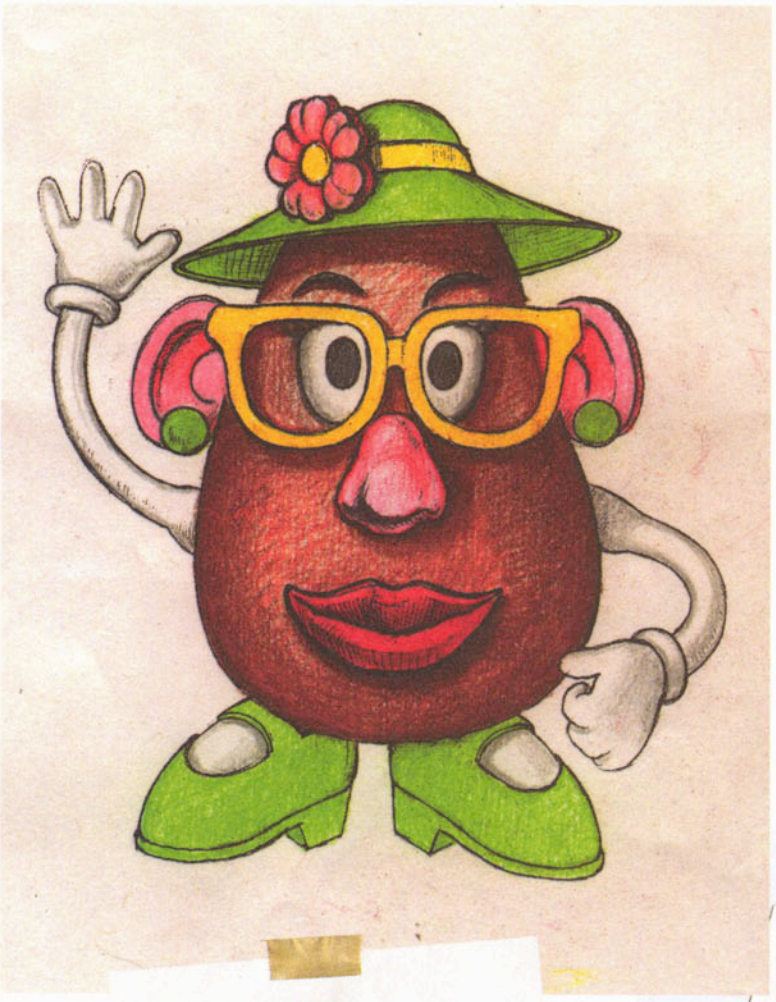


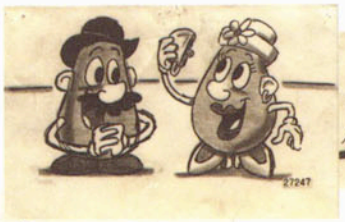


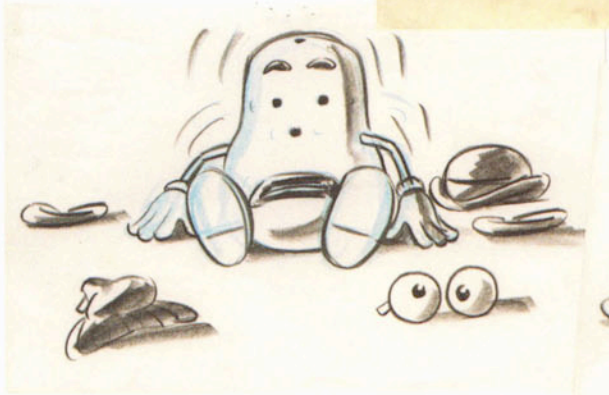
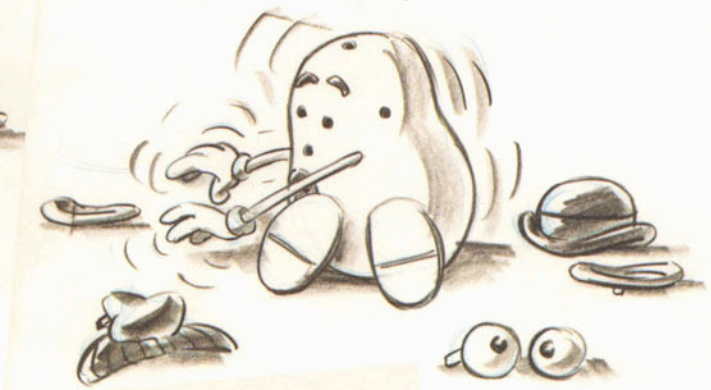


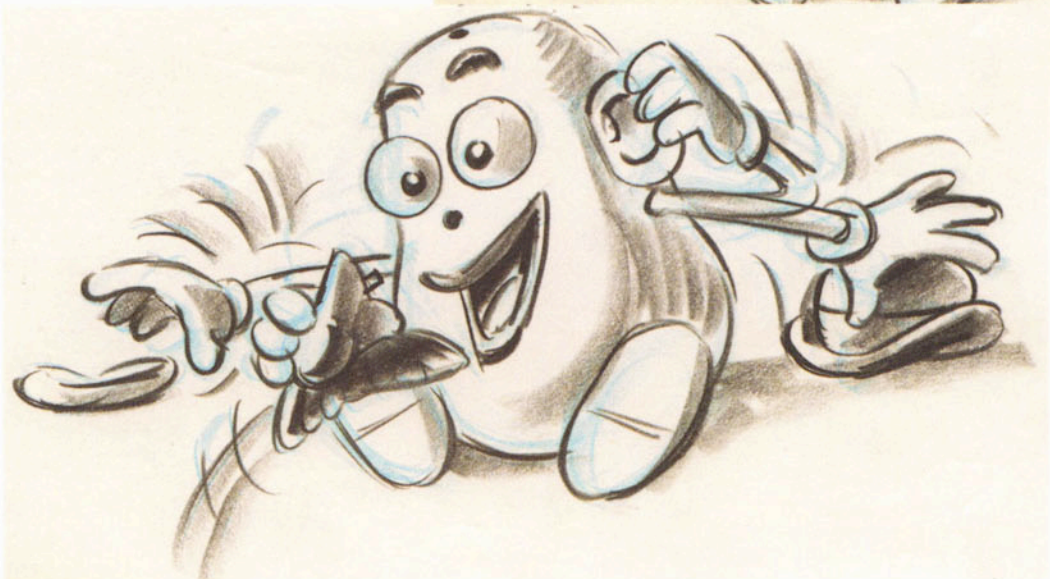


MR. & MRS. POTATO HEAD







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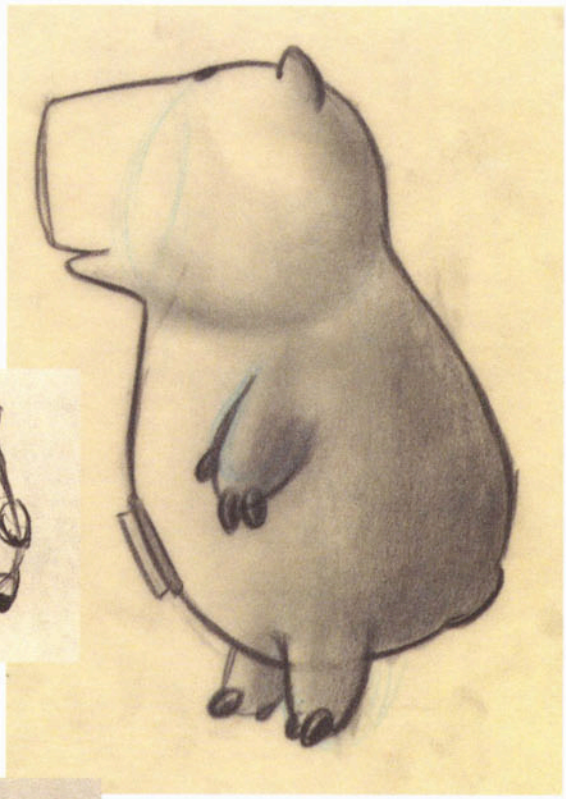
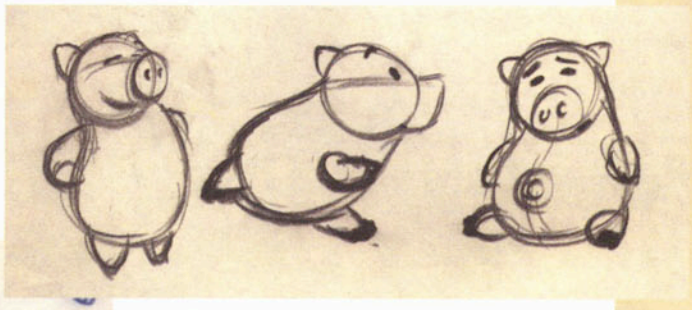
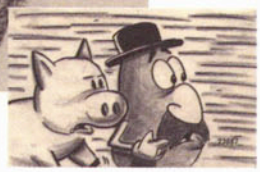
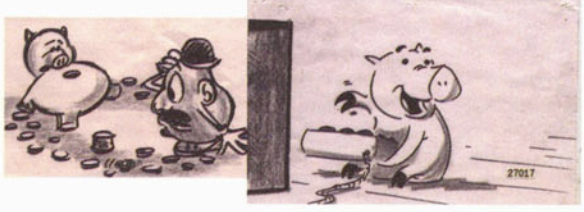
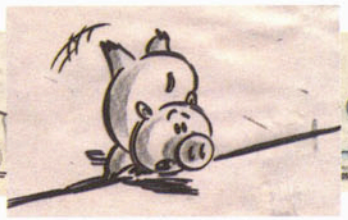
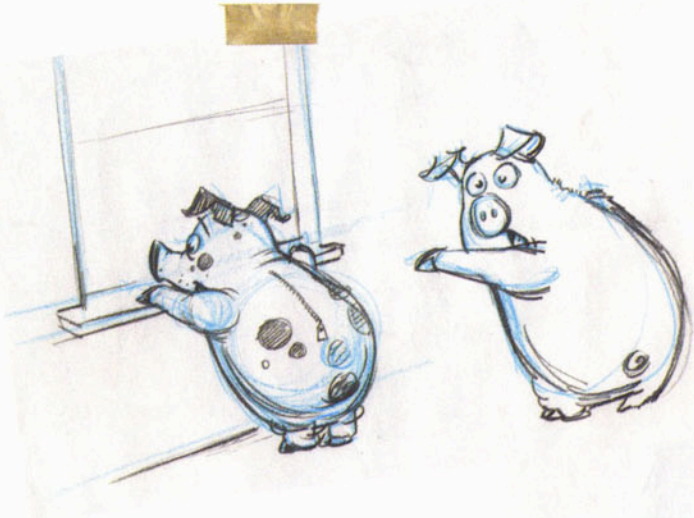
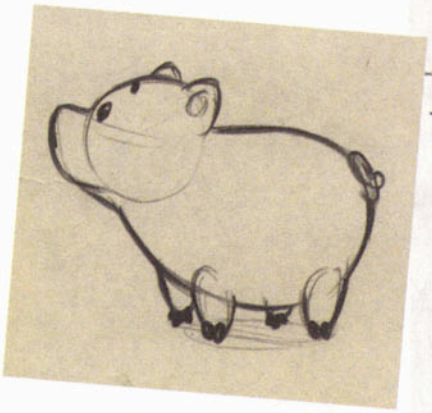


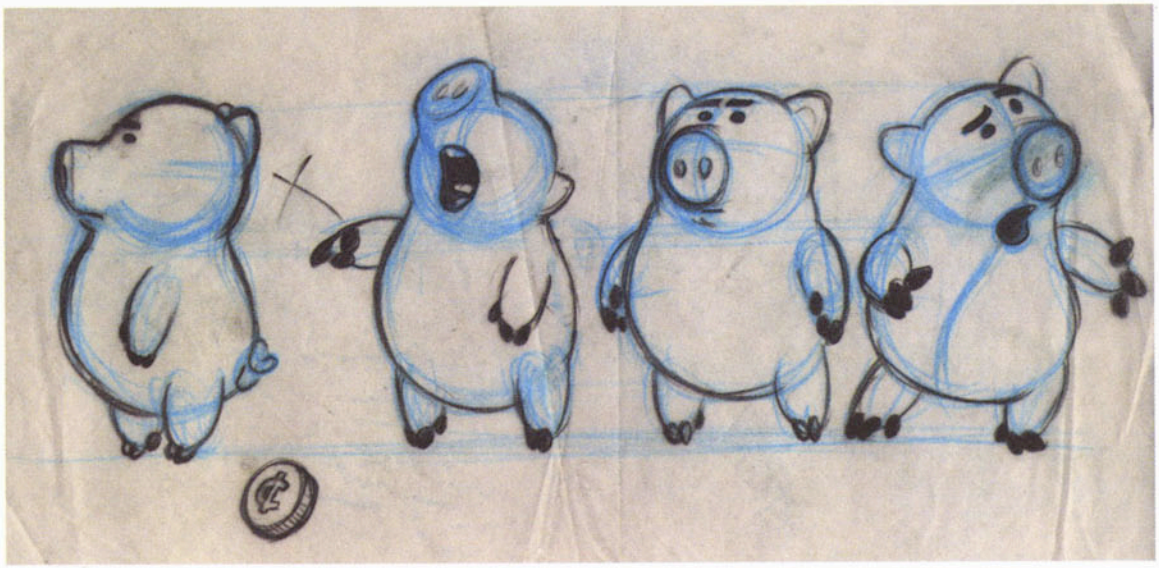


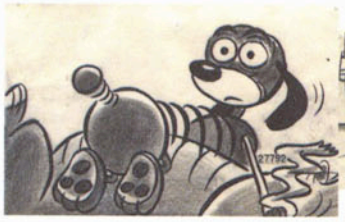


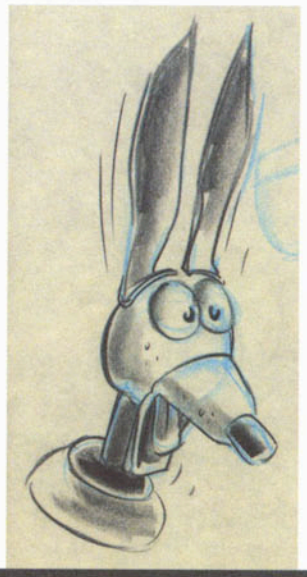




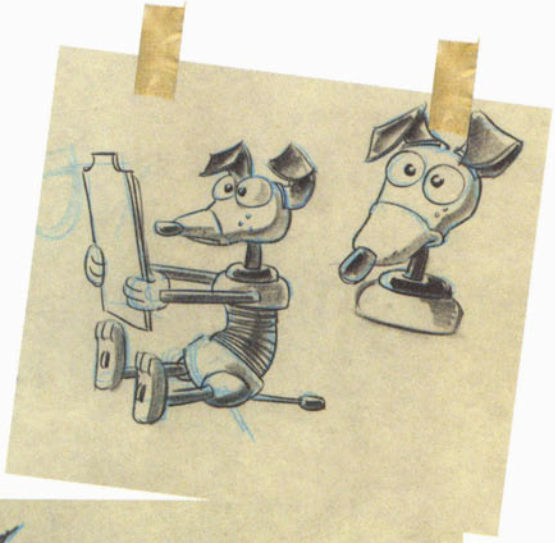



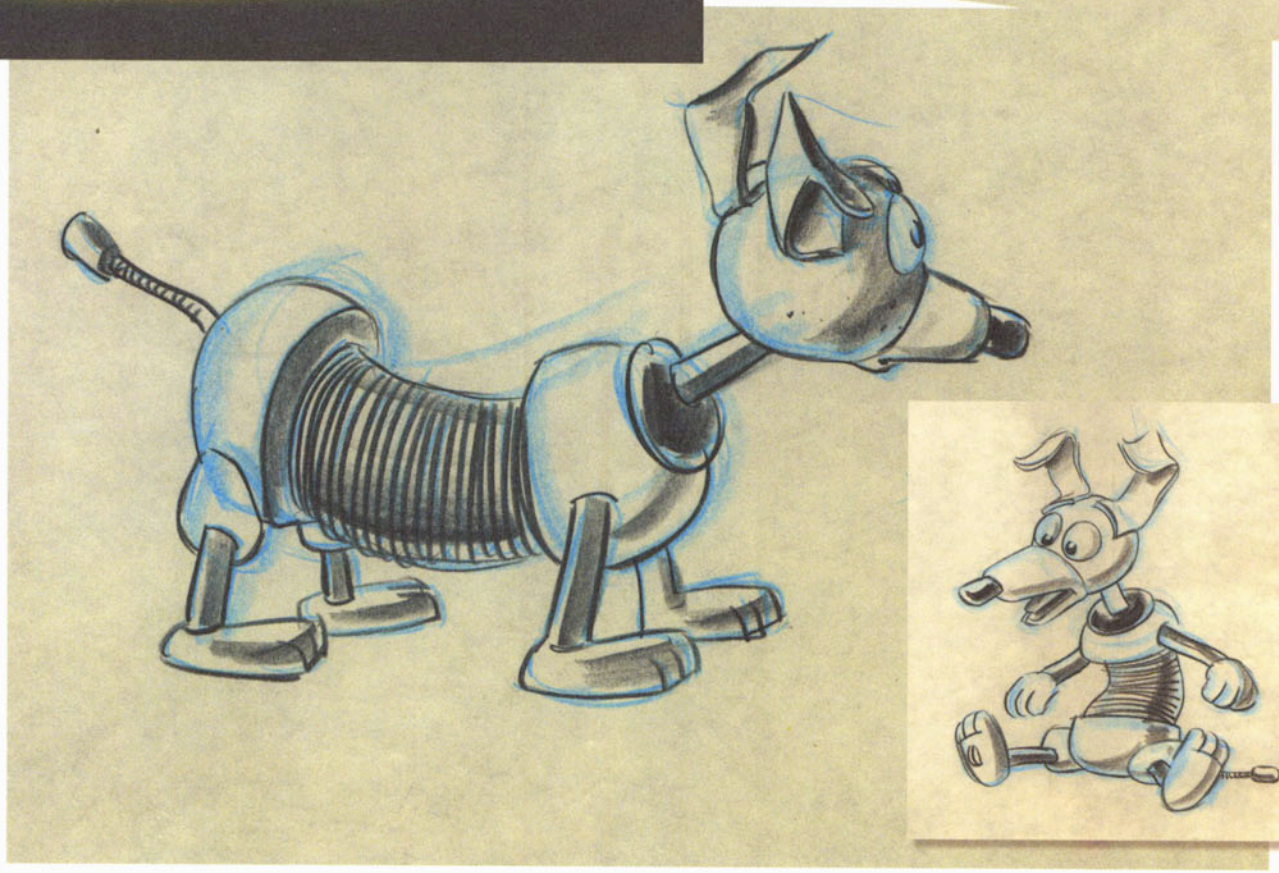


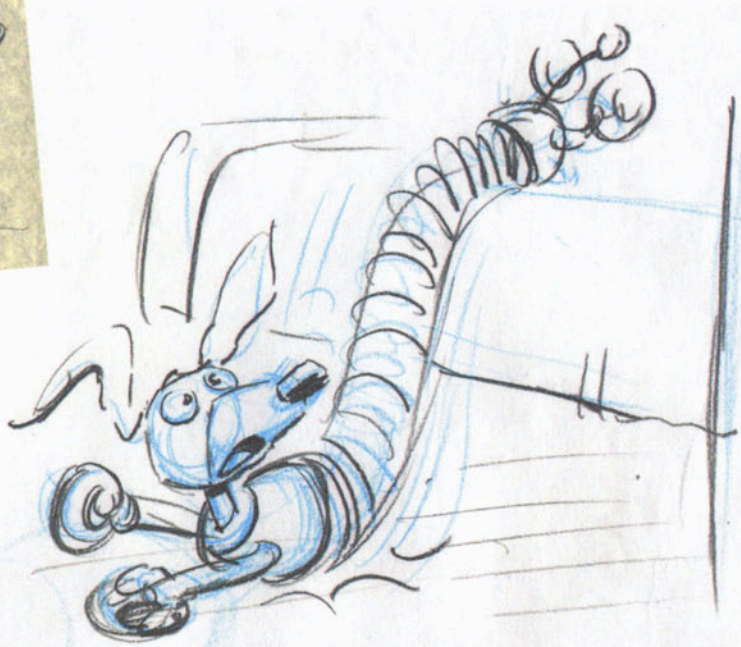


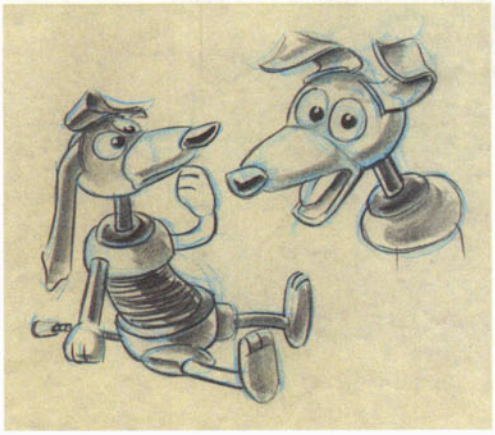


SLINKY

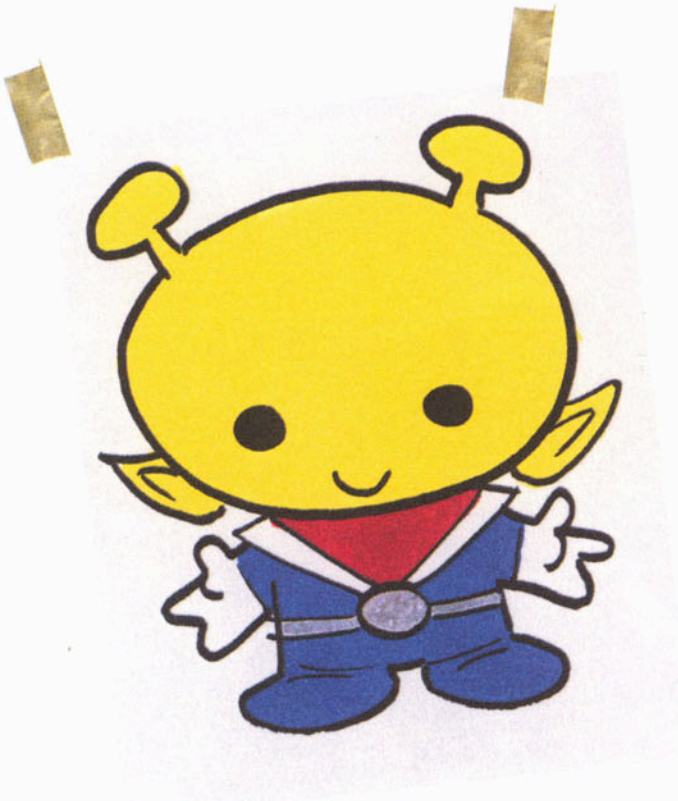




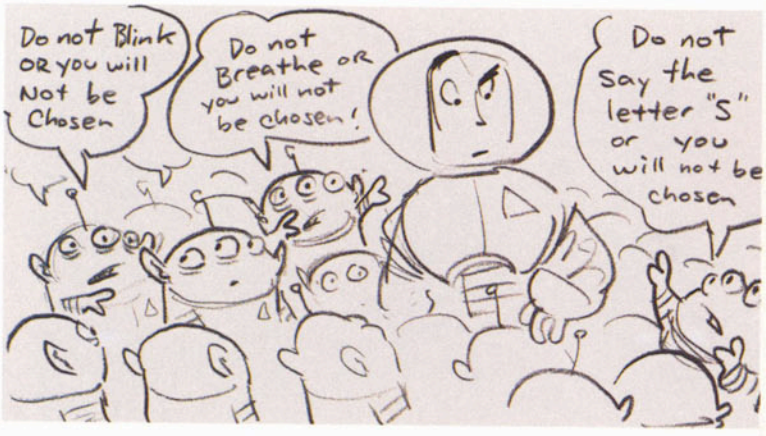


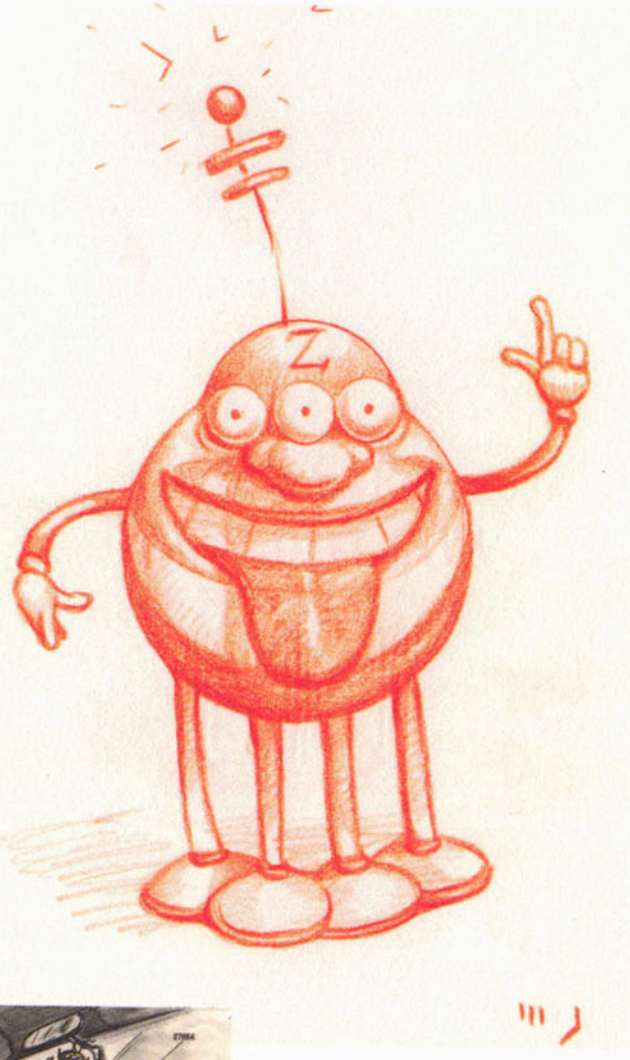


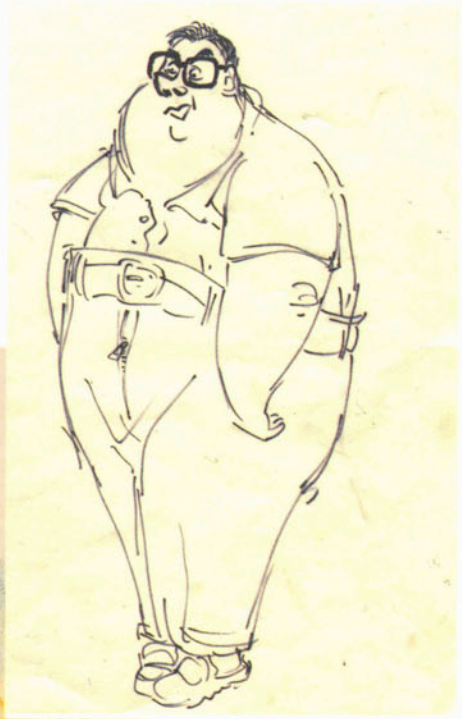
AAAAOoooooAAAAo
AAHHHHHOOOOO



ALIENS

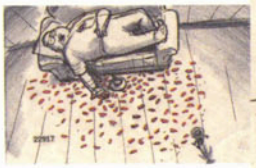

Do not Blink OR you will Not be Chosen
Do not Breathe OR you will not be chosen!
Do not Say the letter "S" or you will not be chosen

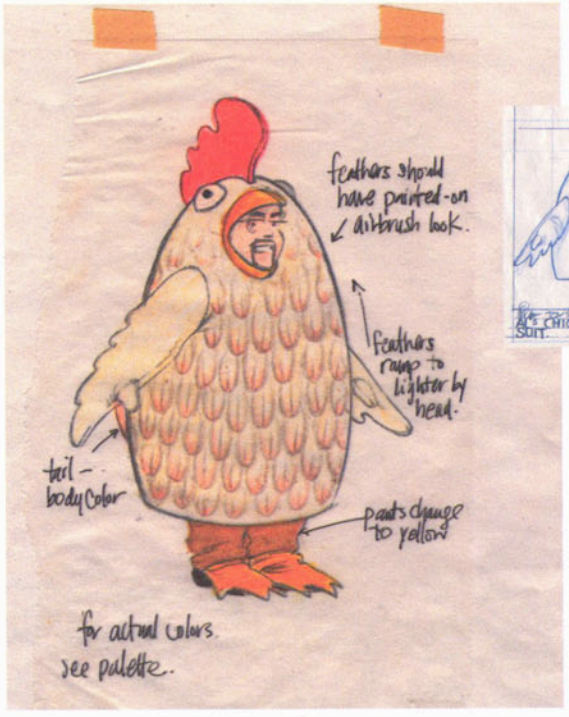


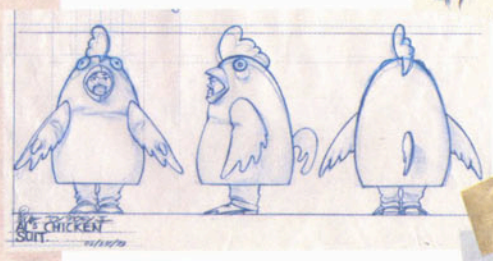


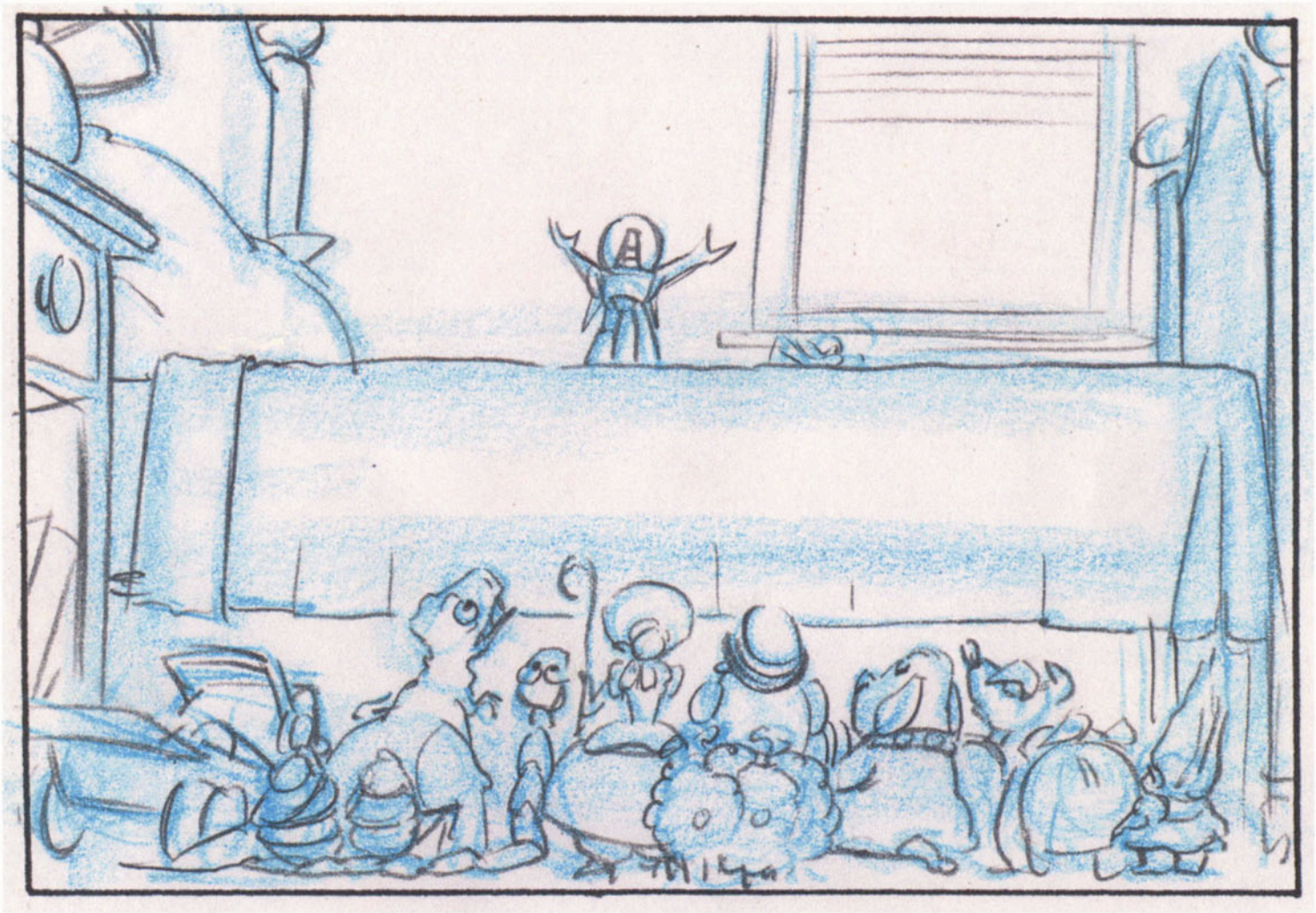
A L

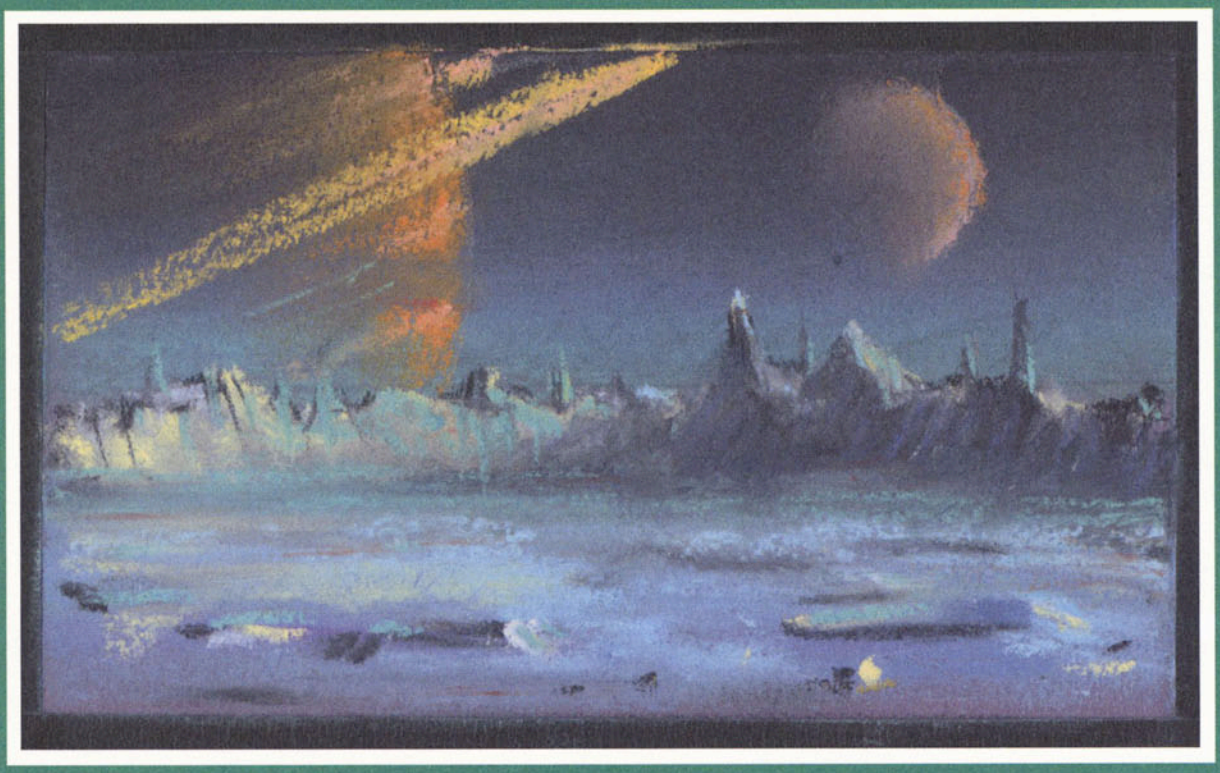
AL's

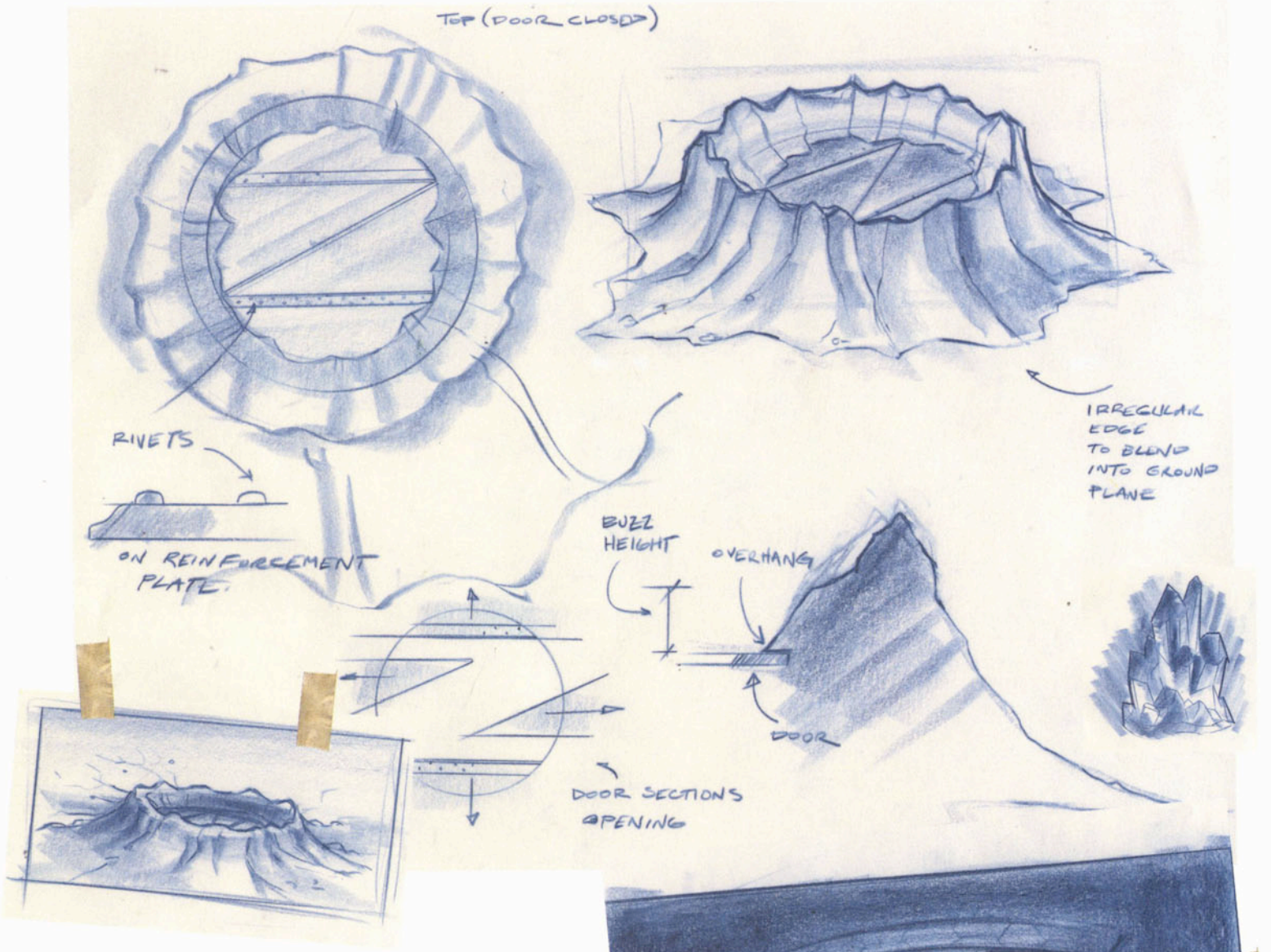



feathers should have painted-on airbrush look.
feathers ramp to lighter by head.
tail - body color
pants change to yellow
for actual colors see palette.

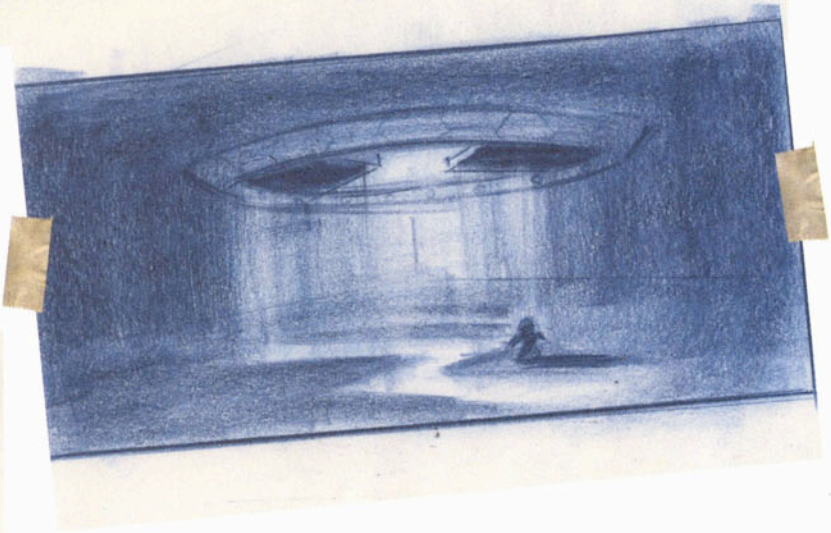

AL'S CHICKEN SUIT

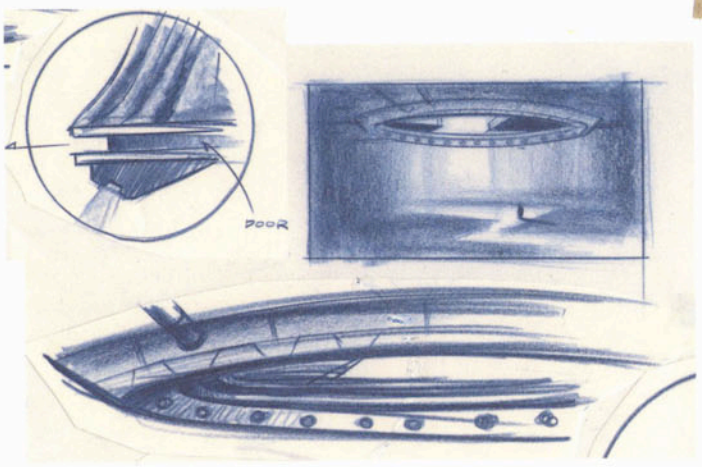


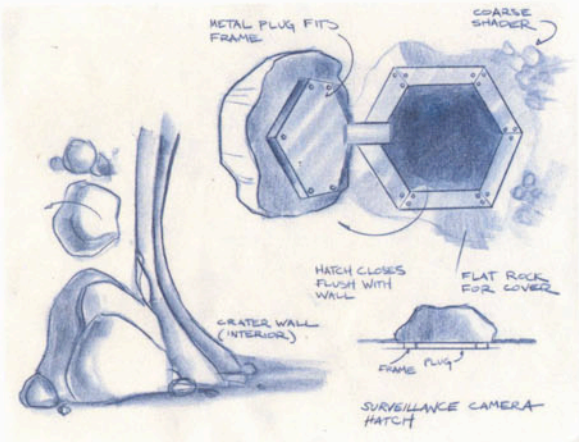


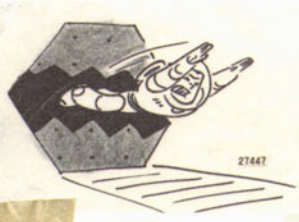


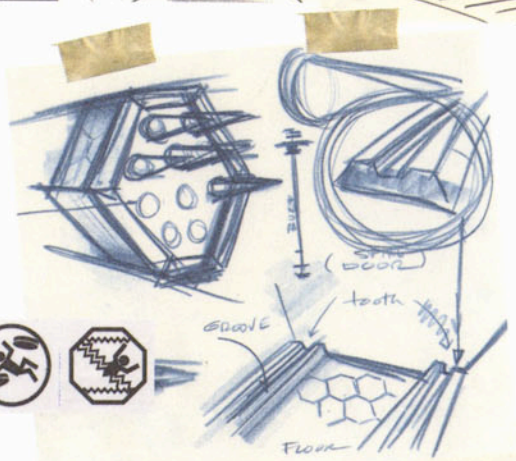
ZURG'S FORTRESS

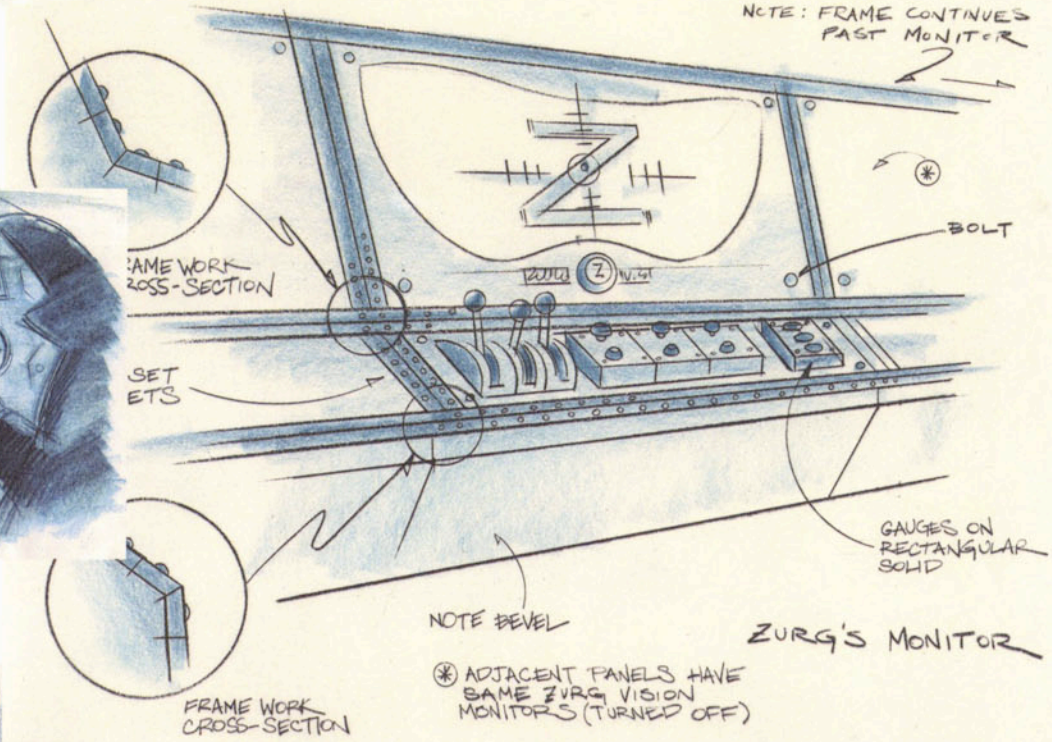


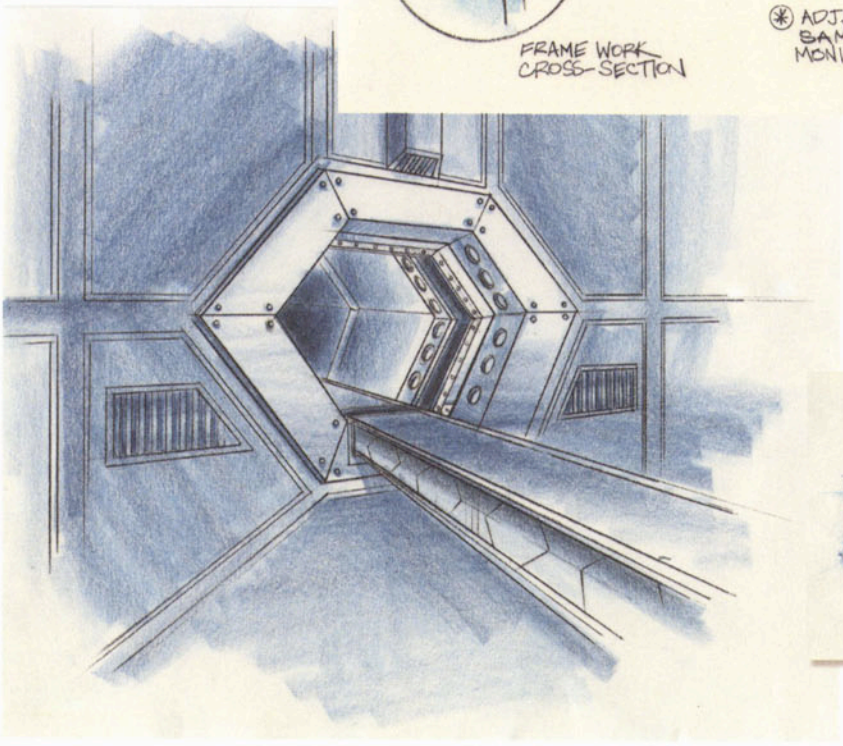


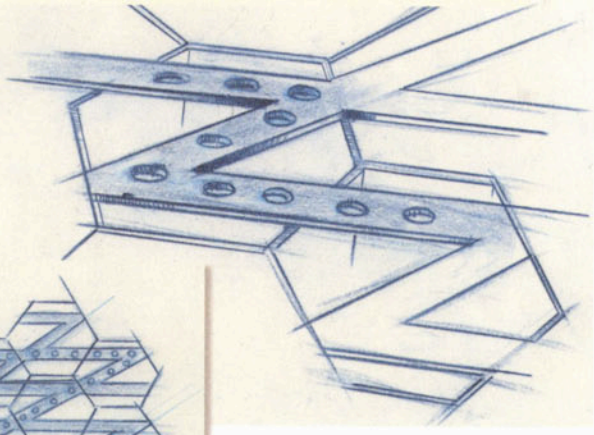


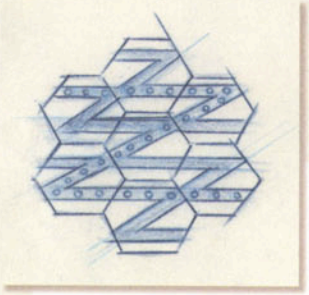

27447

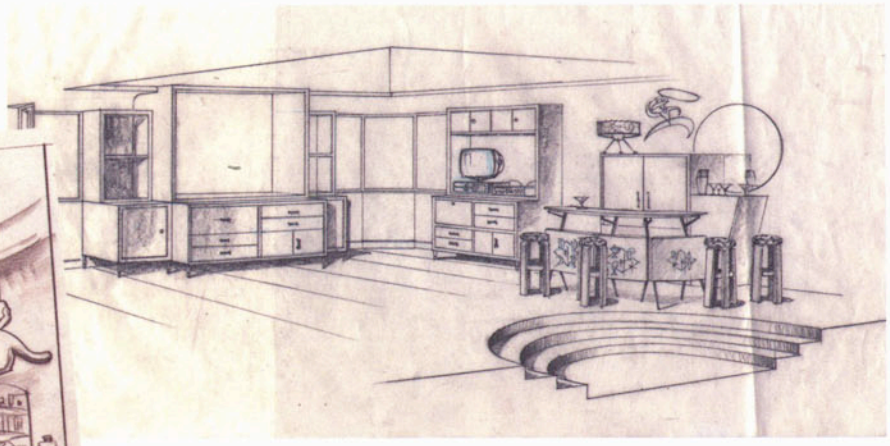

SAME "Z" DOOR ELEMENTS AS CRATER DOOR
INSIDE DOOR FRAME
BOLTS
SPACE FOR DOOR
(HALLWAY WALL)
(FLOOR)
LIGHTS
BLAST DOOR
(DOOR)
tooth
GROOVE
FLOOR

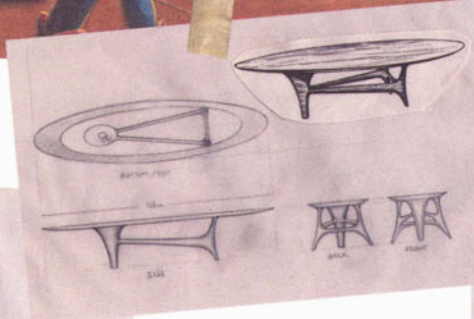

NOTE: FRAME CONTINUES PAST MONITER
BOLT
AME WORK
ROSS-SECTION
SET
ETS
GAUGES ON RECTANGULAR SOLID
NOTE BEVEL
ZURG'S MONITOR
✱ ADJACENT PANELS HAVE SAME ZURG VISION MONITORS (TURNED OFF)
FRAME WORK CROSS-SECTION

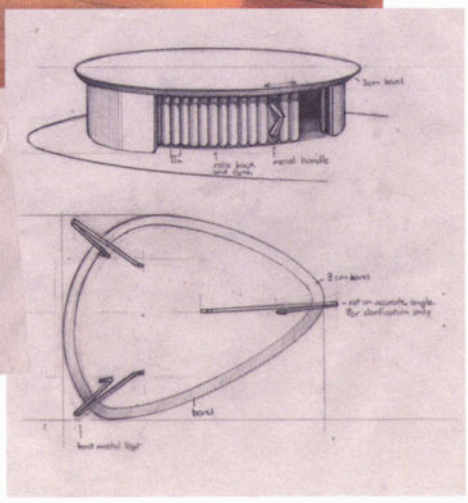


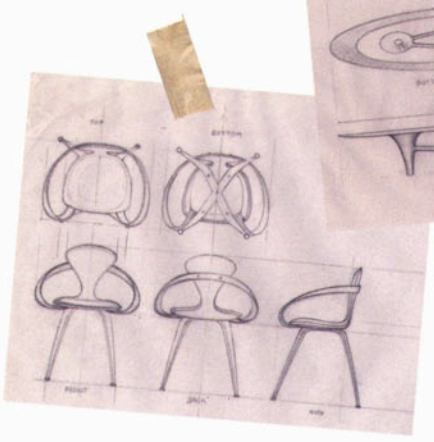


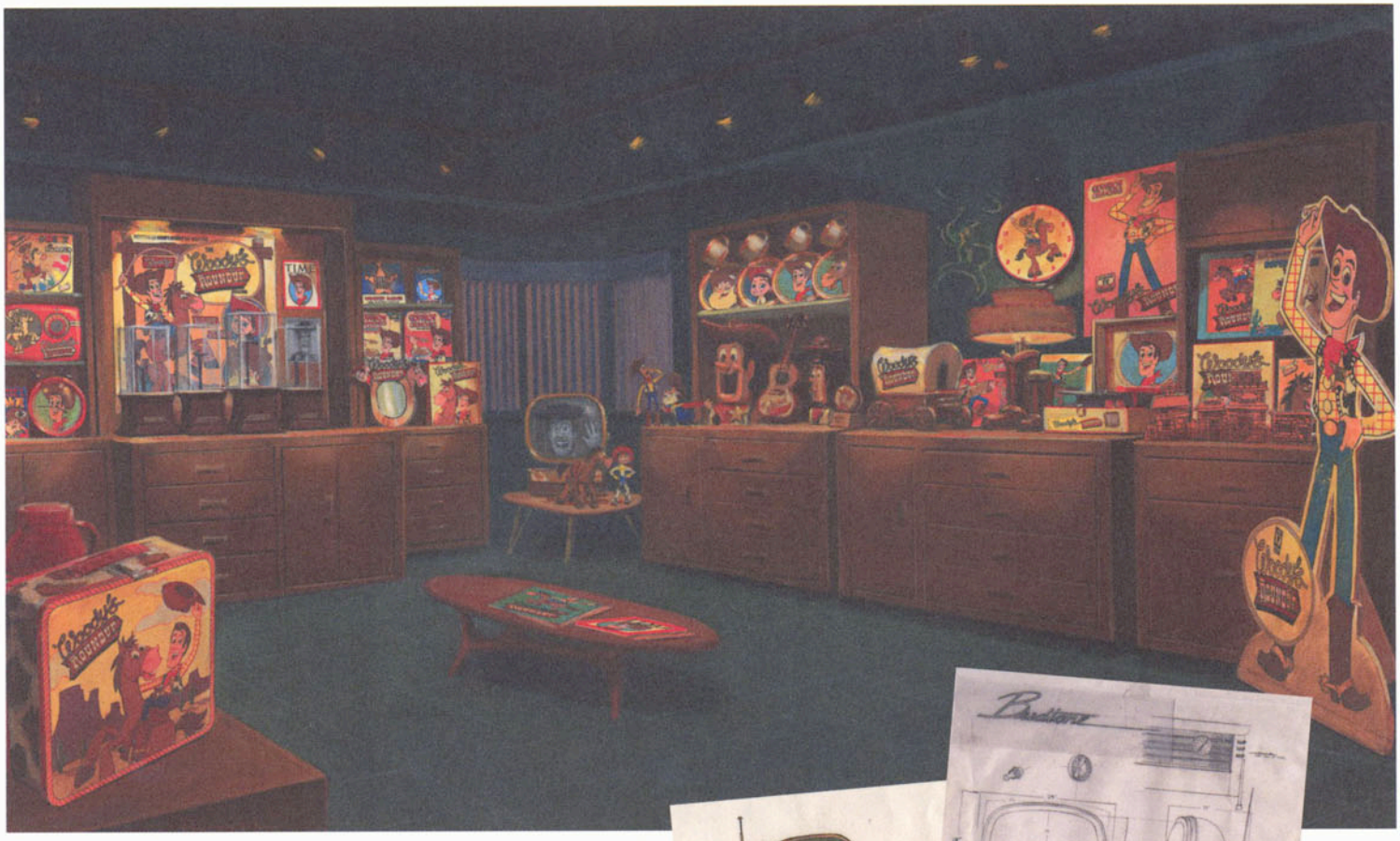


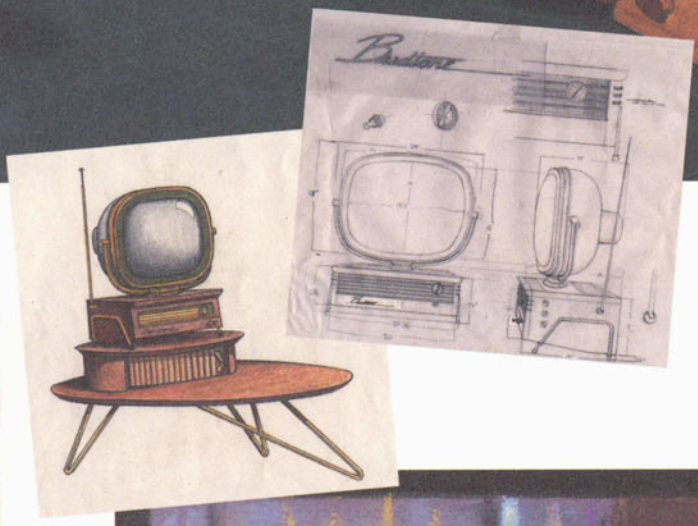


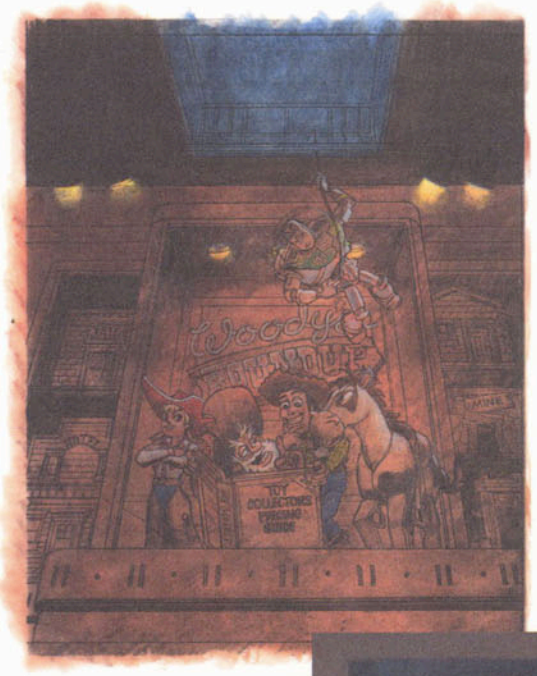


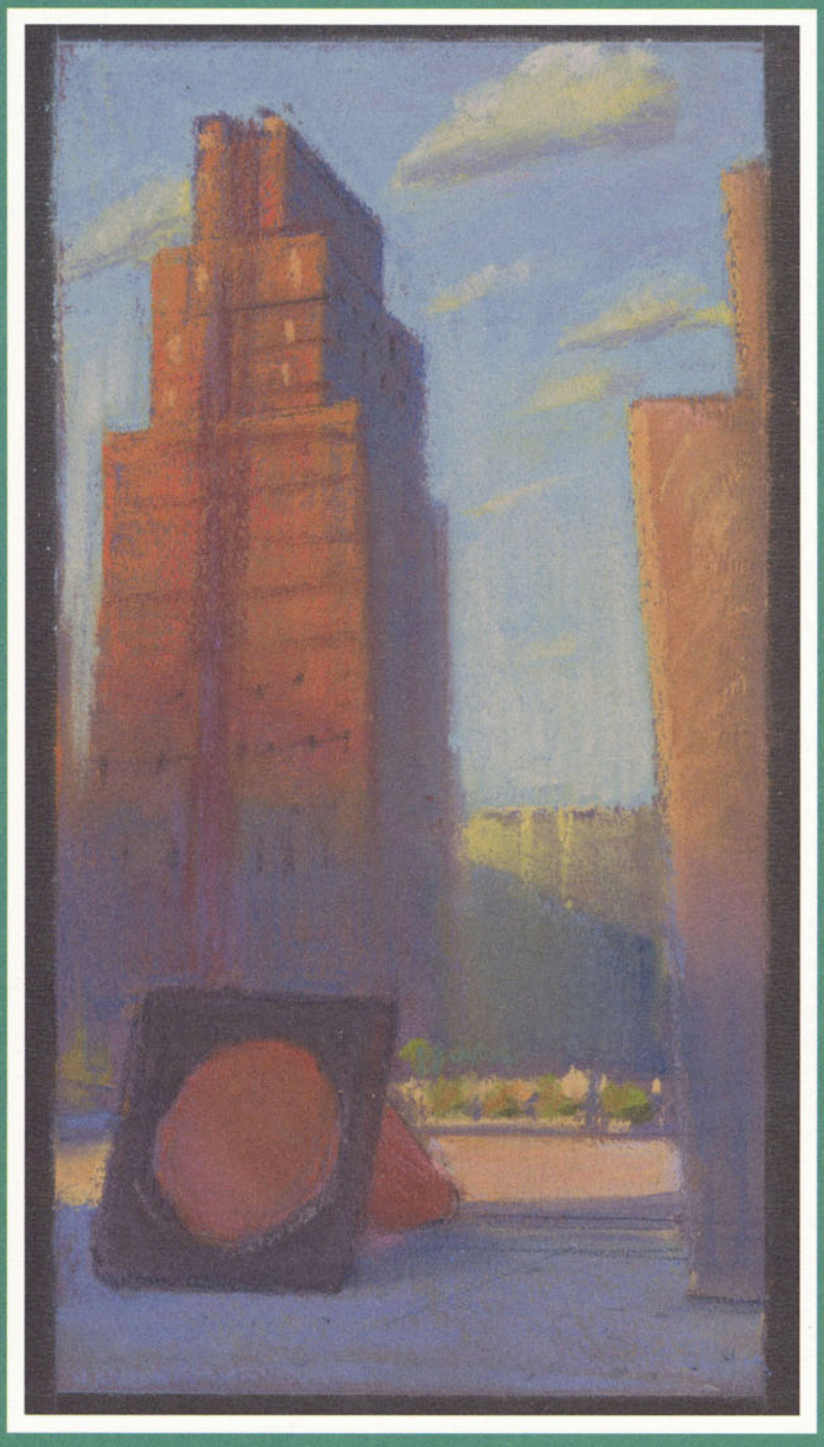


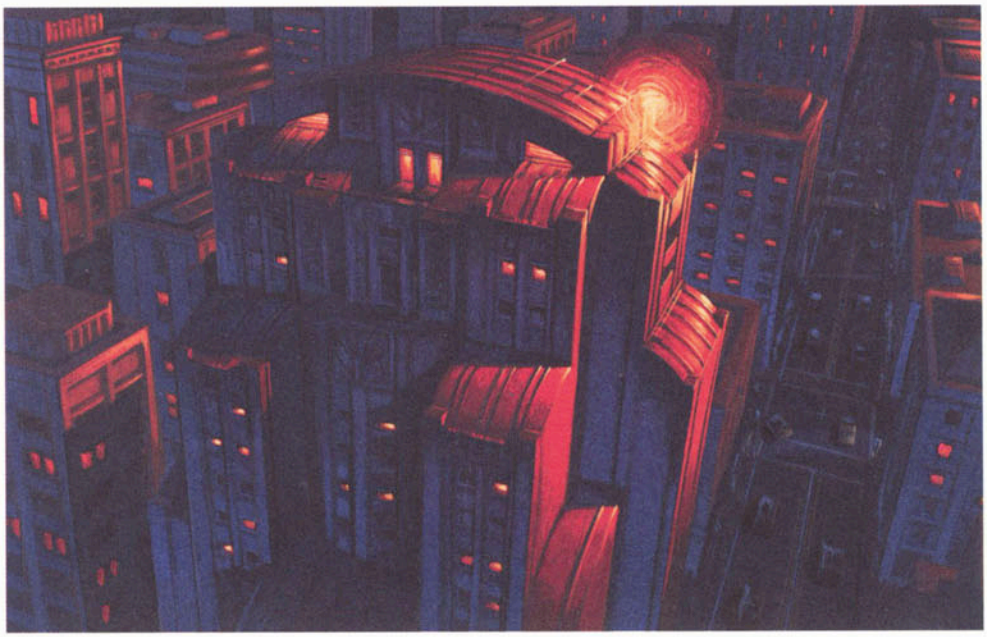



Woody's Roundup

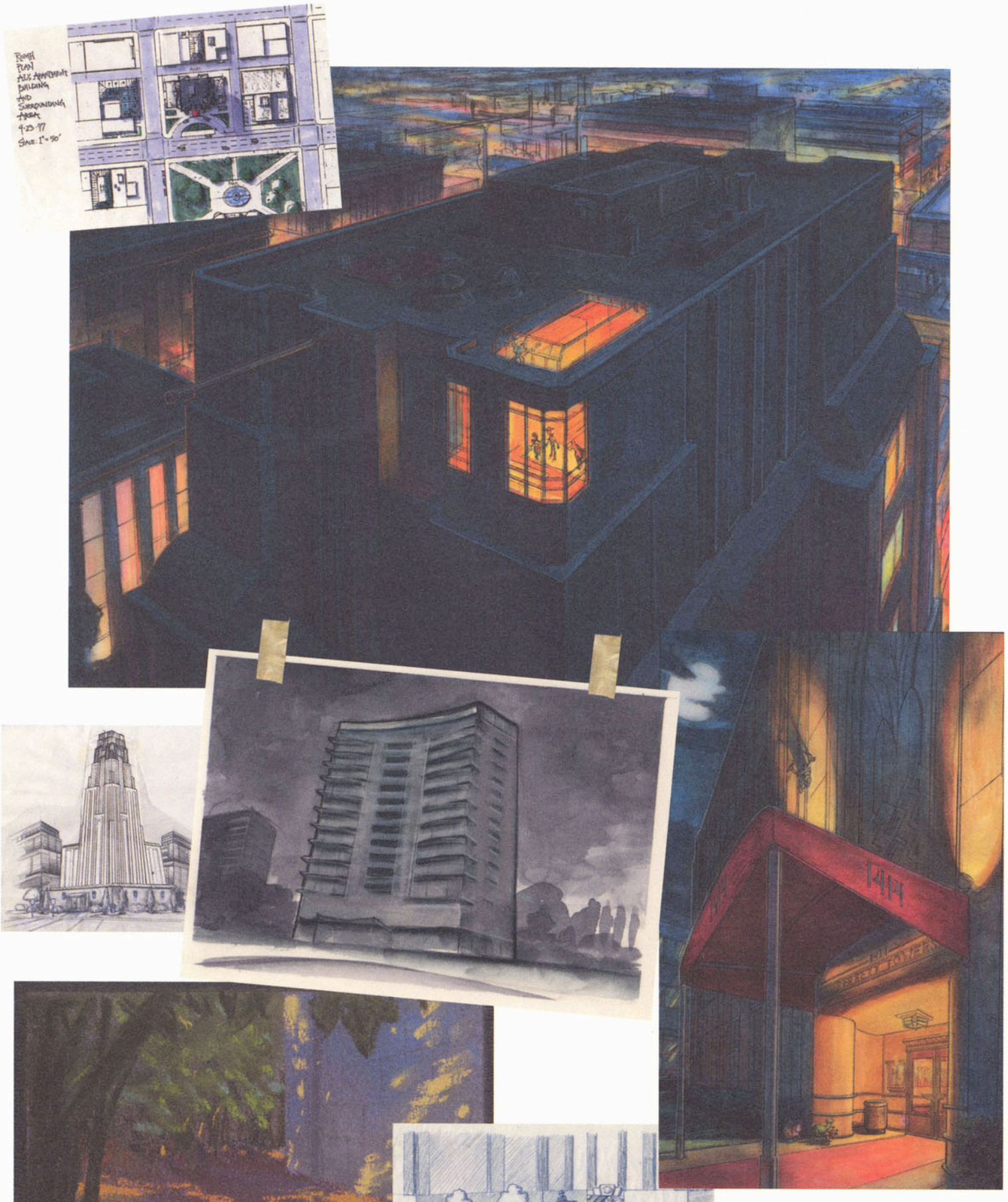

Buttons


Woody's Roundup
TOY COLLECTORS
PREMIER
SHOW

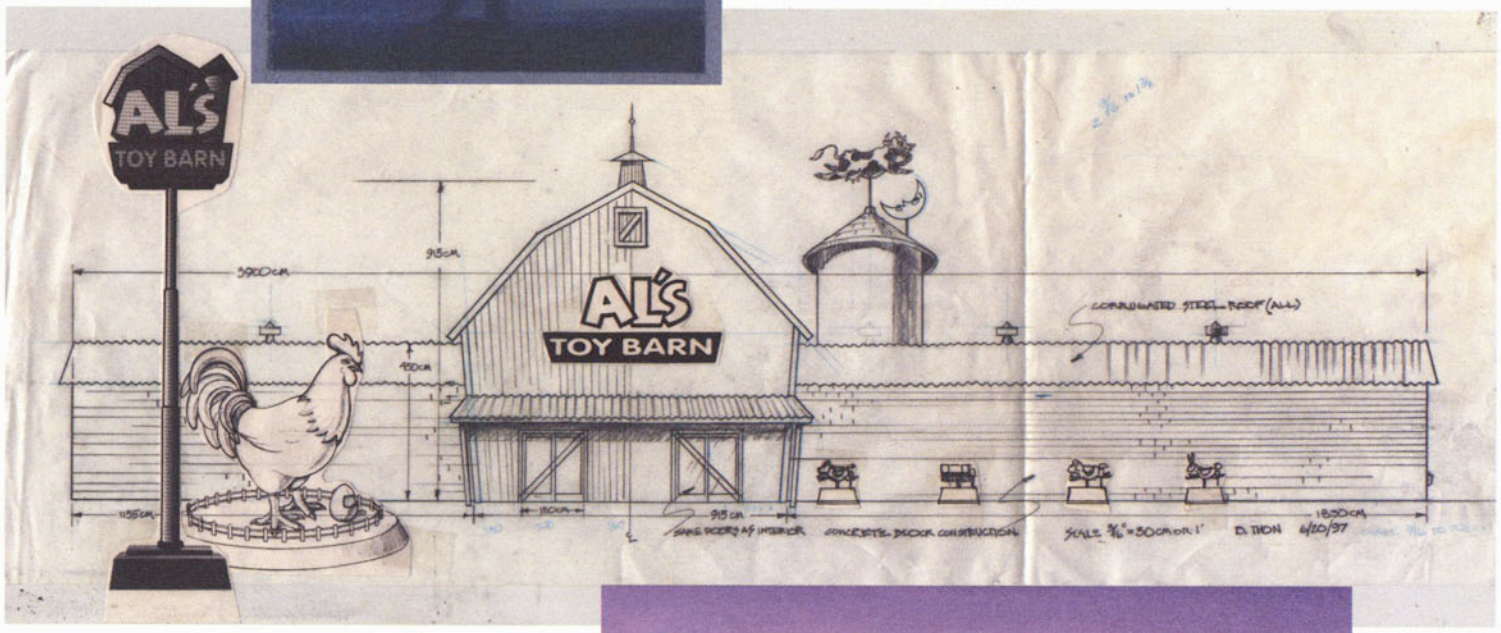


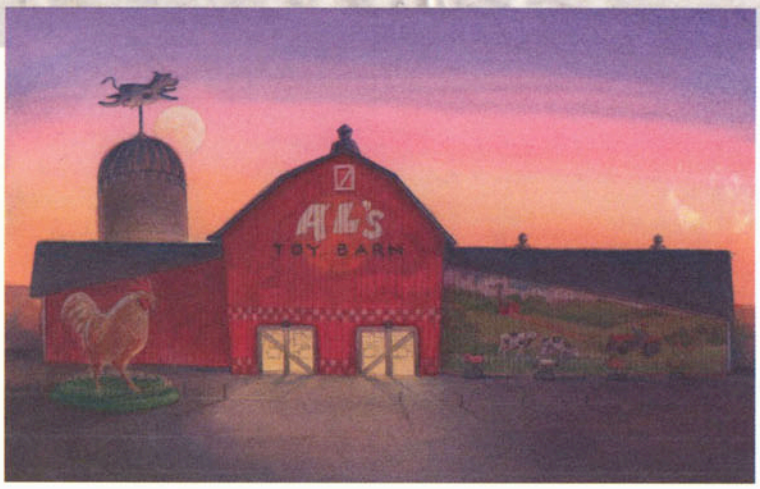


DOWNTOWN

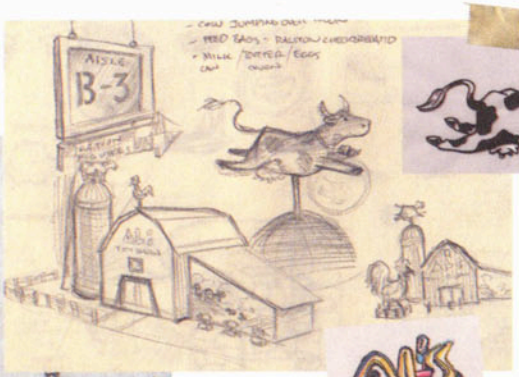

ROUGH
PLAN
ALL APARTMENT
BUILDING
AND
SURROUNDING
AREA
9-23-97
SCALE: 1"=50'
1414

AL'S TOY BARN


AL'S
TOY BARN
AL'S
TOY BARN
CORRUGATED STEEL ROOF (ALL)
SCALE 3/16"=30CM OR 1'
D. THON
4/20/97


AL'S
TOY BARN

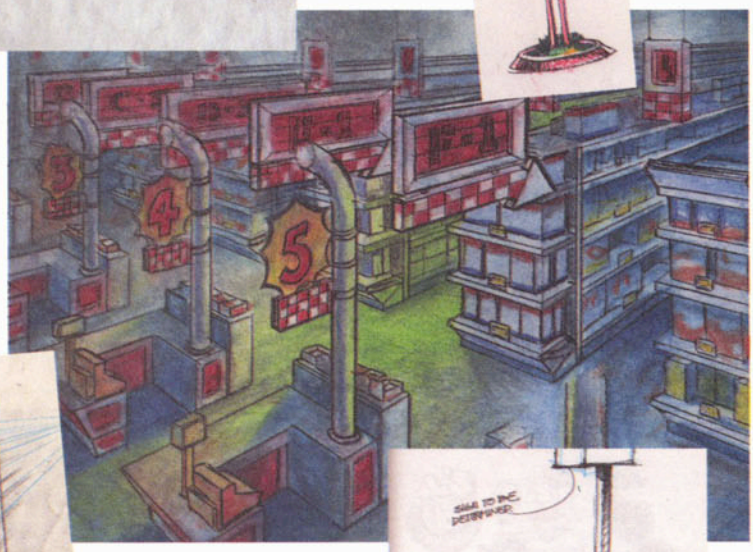
AL's
TOY BARN

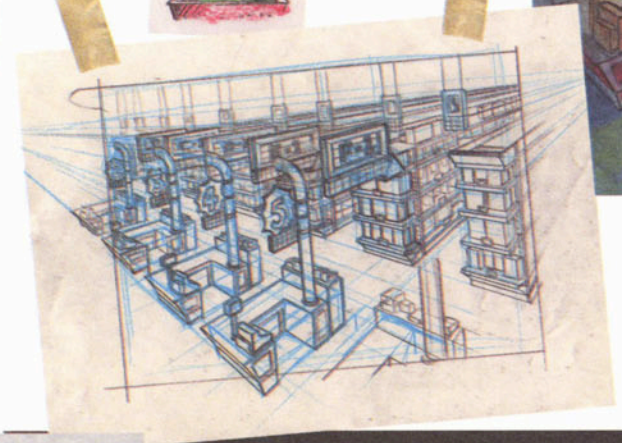

AISLE
B-3

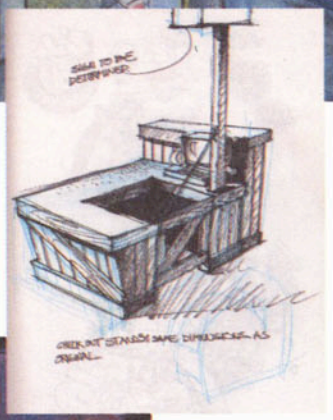
AL's
TOY BARN

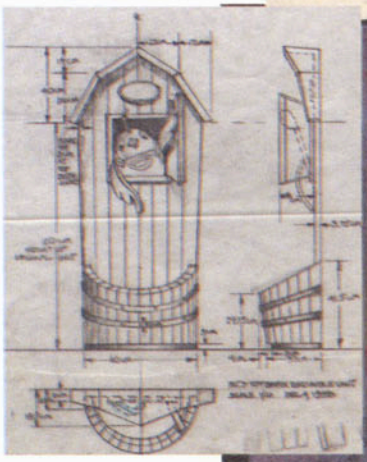
AL's
TOY BARN

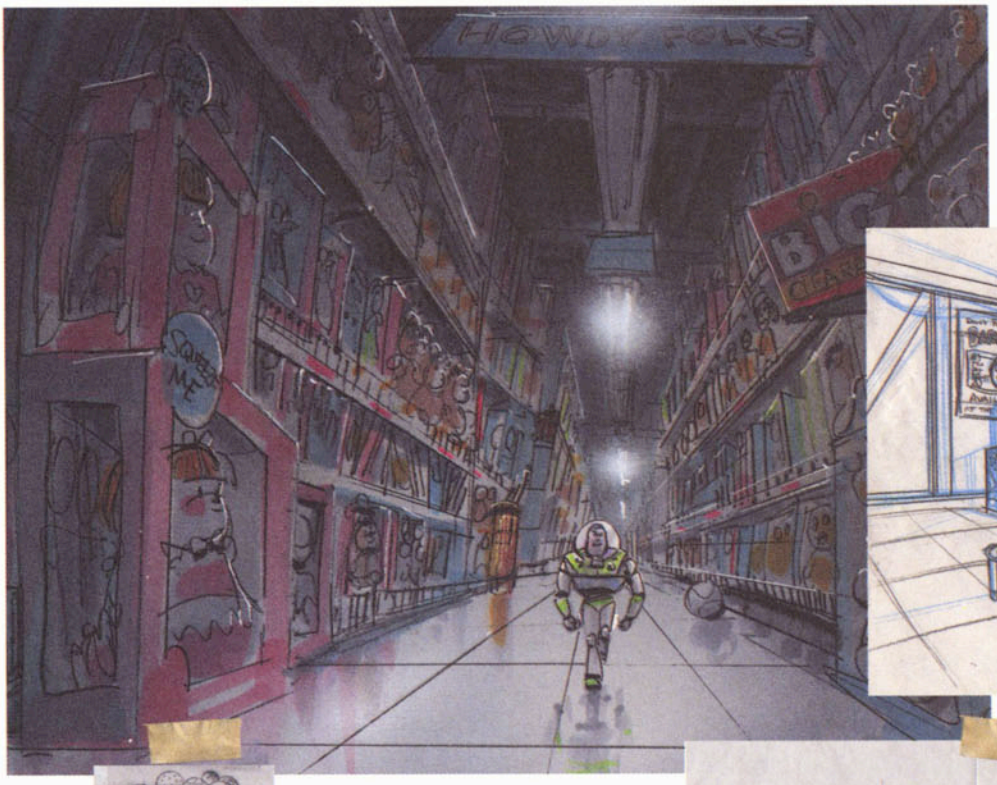
AL's
TOY BARN

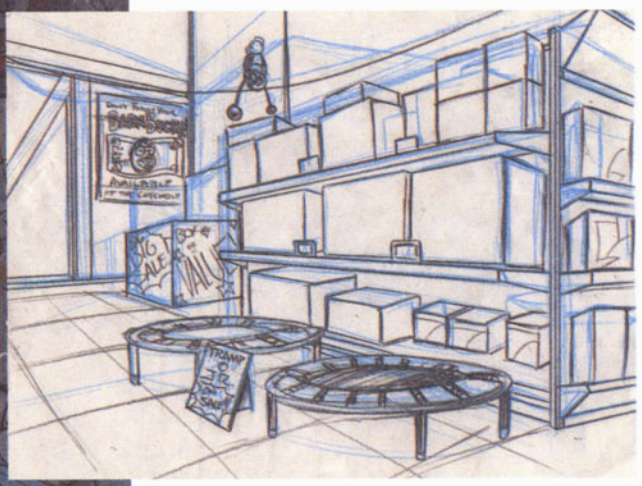

3
4
5


4
5

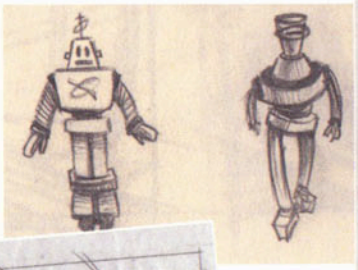


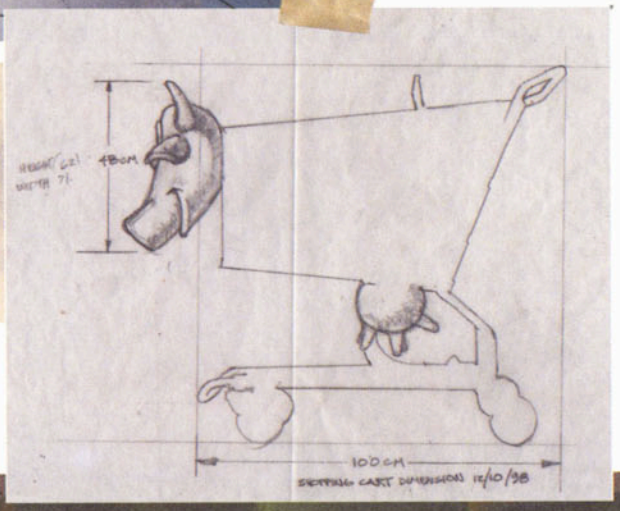



HOWDY FOLKS

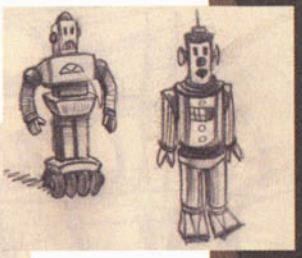


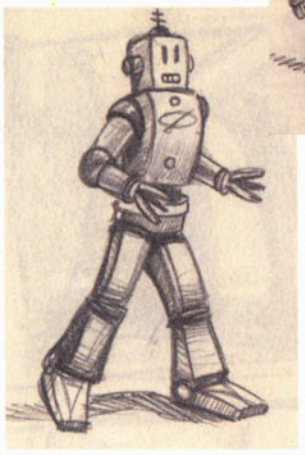
BALLS

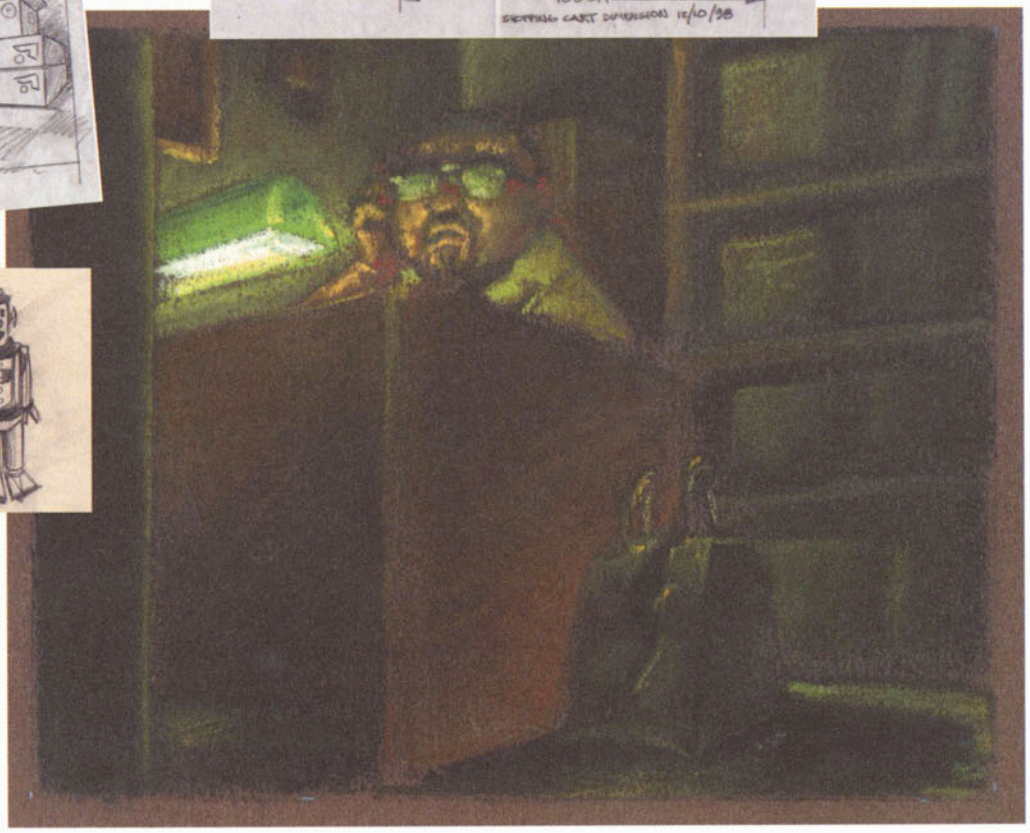


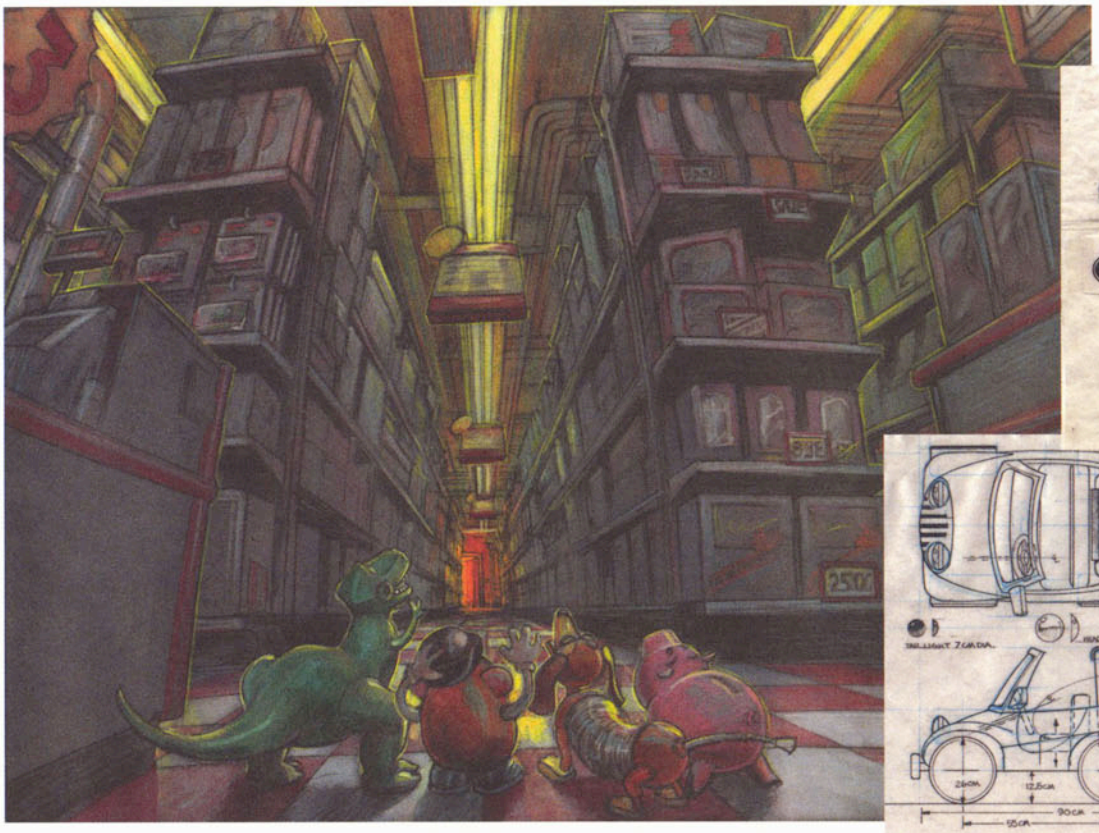

180cm
100cm

AL'S OFFICE

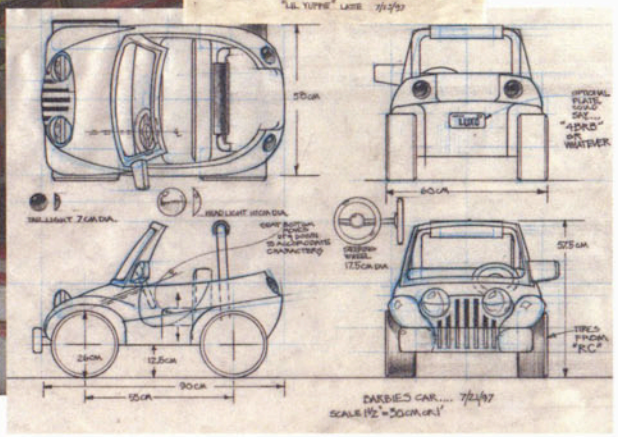


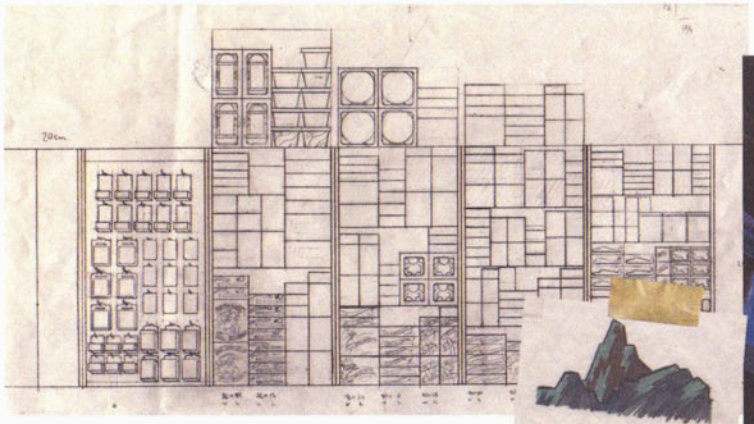


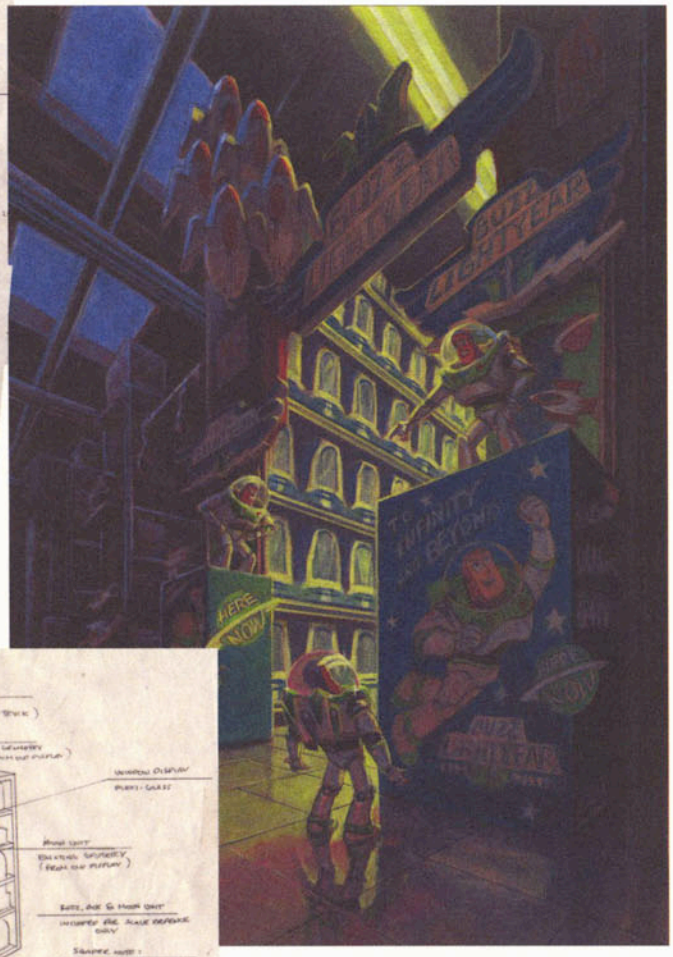


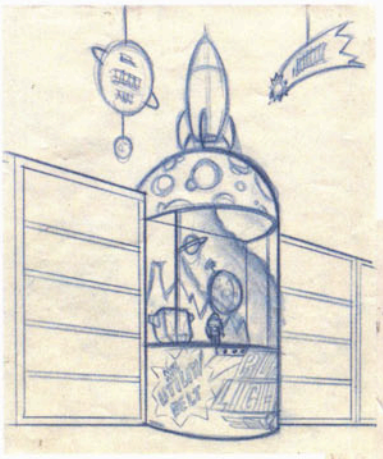


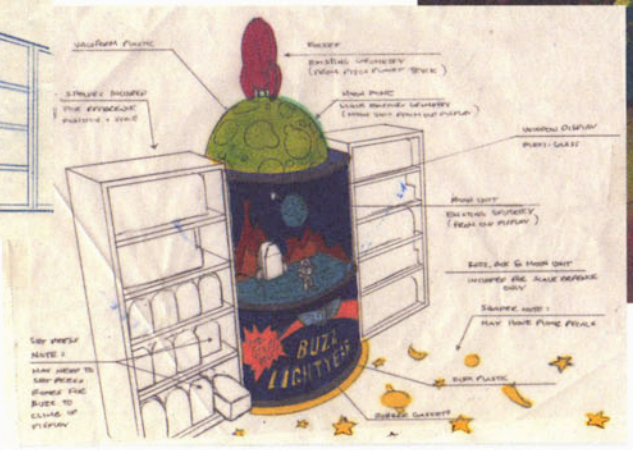
LIL YUPPIE


DARBIES CAR.... 7/2/97

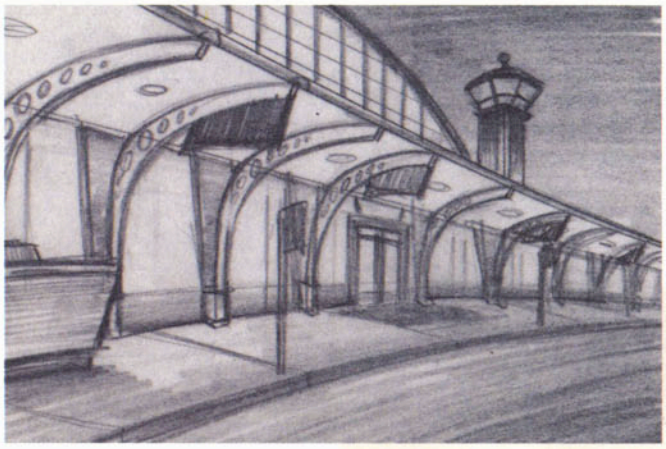


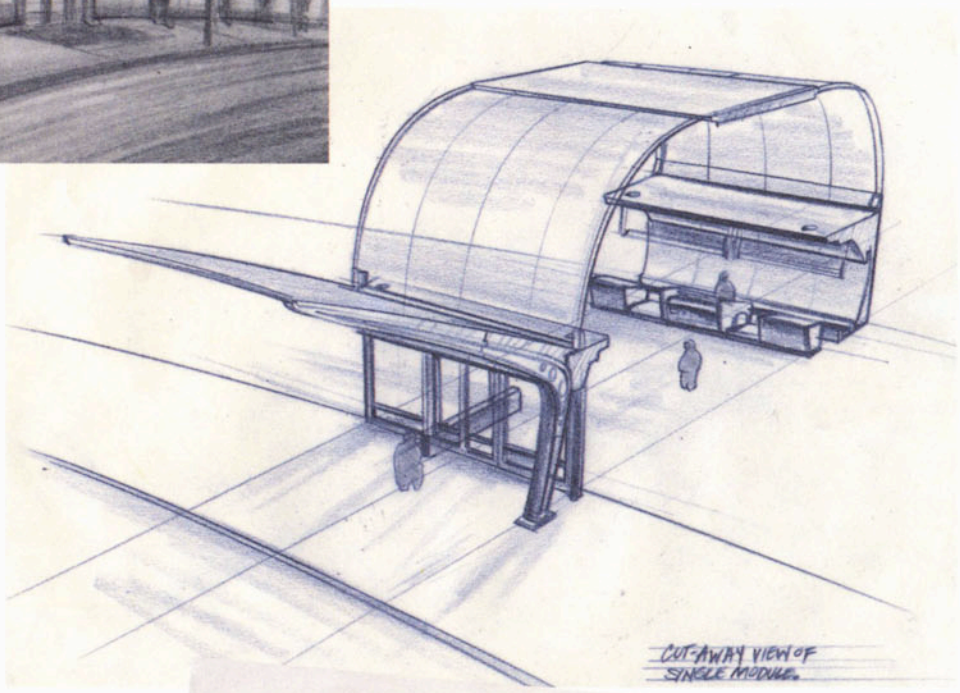

BUZZ LIGHTYEAR

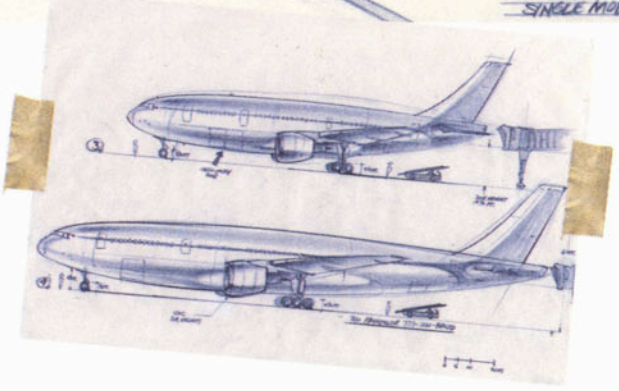



BUZZ LIGHTYEAR

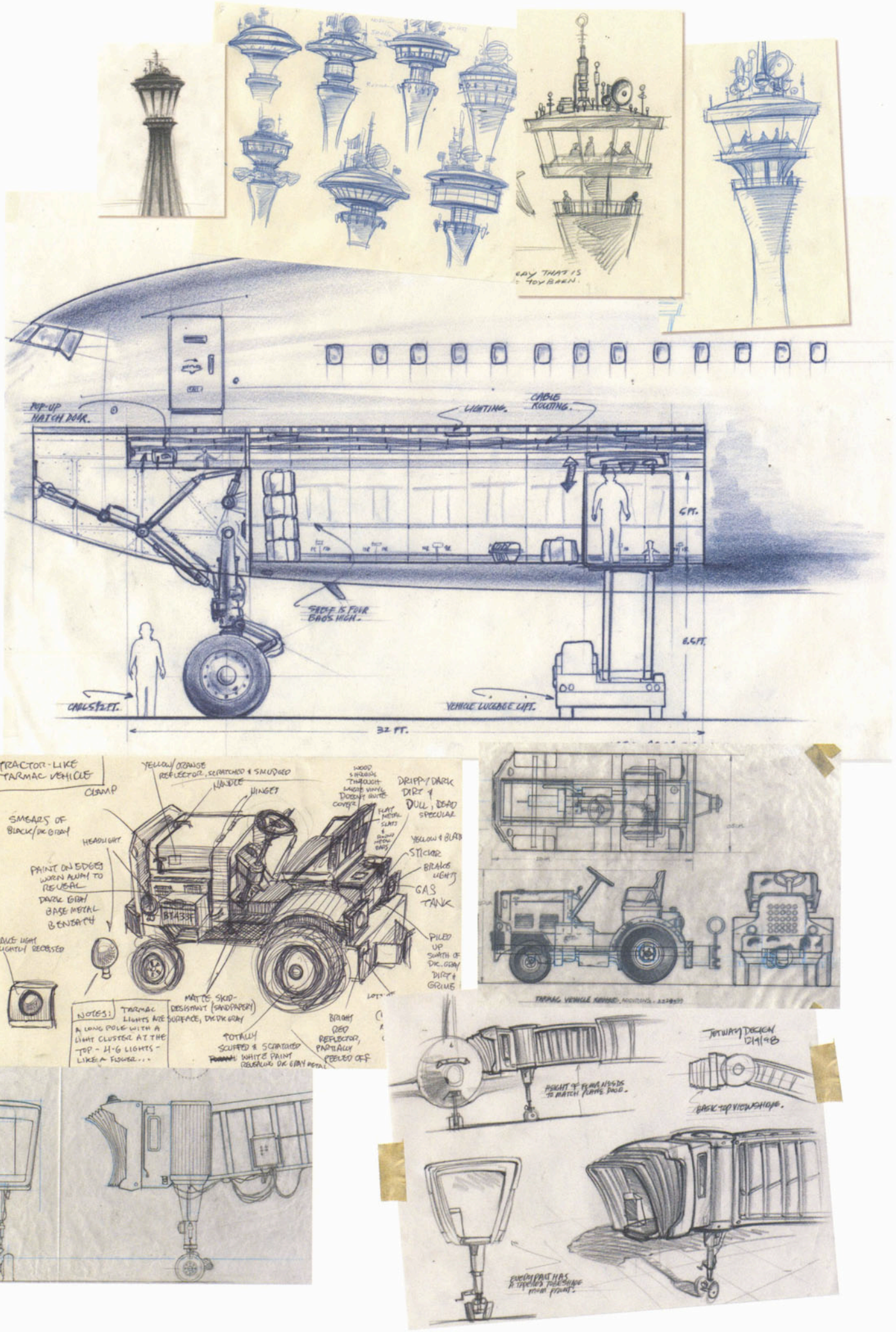
AIRPORT

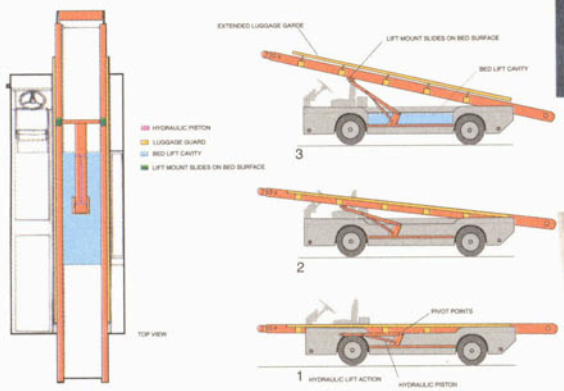


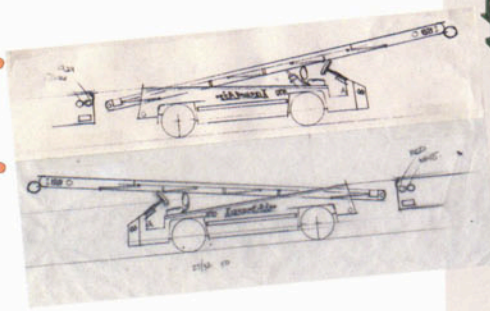


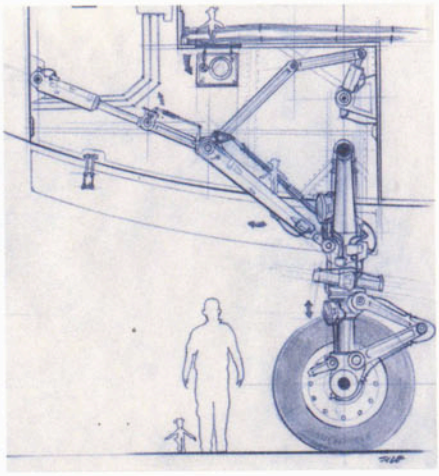


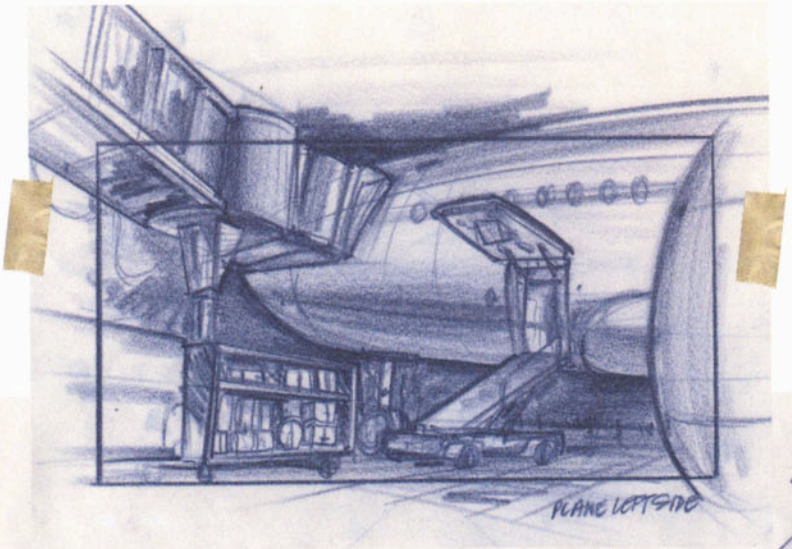
BASIC ARRIVAL MODULE ENTRANCE.
CEILING LIGHT FIXTURE.
BAG CONVEYOR CURVED.
BELT RUNS ON TOP OF BODY.
BAG CONVEYOR STRAIGHT.
TICKETING/CONVEYOR VARIATIONS
CONTINUES
TICKET COUNTER IMAGINE.
FAR EAST
AIRLINES

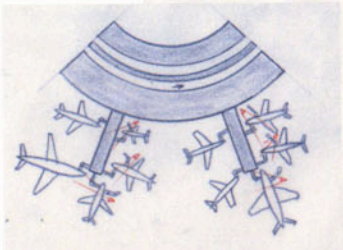

RAY THAT IS TOY BARN.
POP-UP HATCH DOOR.
LIGHTING.
CABLE ROUTING.
6 FT.
SACK IS FOUR BAGS HIGH.
8.5 FT.
CARGO FLT.
VEHICLE LUGGAGE LIFT.
32 FT.
TRACTOR-LIKE TARMAC VEHICLE
CLAMP
YELLOW/ORANGE REFLECTOR, SCRATCHED & SMUDGED
HANDLE
HINGE
WOOD SHOWING THROUGH WHERE VINYL DOESN'T QUITE COVER
DRIPPY/DARK DIRT & DULL, DEAD SPECULAR
FLAT METAL SLATS & RAISED WELDS
SMEARS OF BLACK/DK GRAY
HEADLIGHT
YELLOW & BLACK STICKER
BRAKE LIGHT
PAINT ON EDGES WORN AWAY TO REVEAL DARK GRAY BASE METAL BENEATH
GAS TANK
BT433F
BRAKE LIGHT SLIGHTLY RECESSED
PILED UP SMUTH OF DK. GRAY DIRT & GRIME
NOTES: TARMAC LIGHTS ARE A LONG POLE WITH A LIGHT CLUSTER AT THE TOP - H-6 LIGHTS - LIKE A FLOWER...
MATTE SKID-RESISTANT (SANDPAPER) SURFACE, DK DK GRAY
TOTALLY SCUFFED & SCRATCHED WHITE PAINT REVEALING DK GRAY METAL
BRIGHT RED REFLECTOR, PARTIALLY PEELED OFF
TARMAC VEHICLE REVISE
JETWAY DOOR 12/19/98
HEIGHT OF FLOOR NEEDS TO MATCH PLANE DOOR.
BACK TOP VIEW SHOWS HOOP.
EMERGENCY EXIT HAS 8 TRACKING THRESHOLD MOUNT POINTS.


EXTENDED LUGGAGE GARDE
LIFT MOUNT SLIDES ON BED SURFACE
BED LIFT CAVITY
HYDRAULIC PISTON
LUGGAGE GUARD
BED LIFT CAVITY
LIFT MOUNT SLIDES ON BED SURFACE
TOP VIEW
3
2
PIVOT POINTS
1
HYDRAULIC LIFT ACTION
HYDRAULIC PISTON

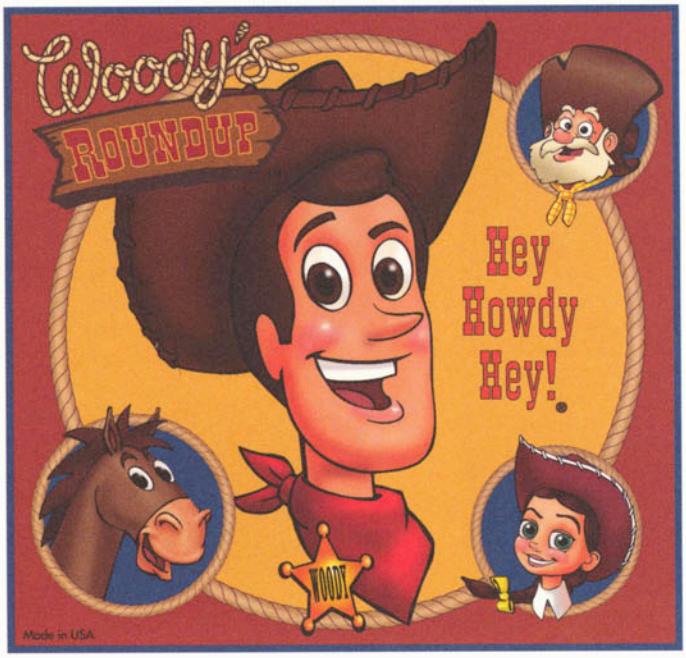





PLANE LEFTSIDE

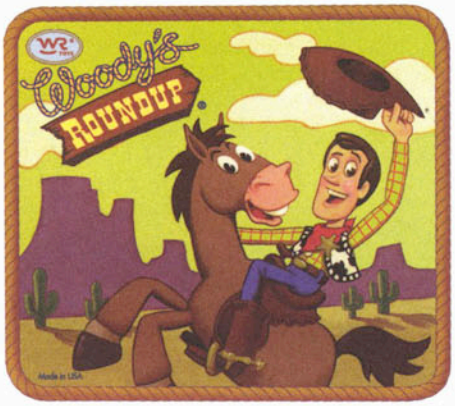


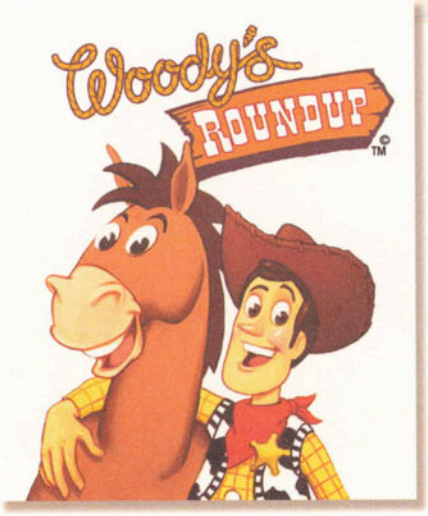
CAPT.
6½FT.
5FT.
CART
WHEEL
6FT.
5½FT.
18FT.
OVERALL LENGTH = 158

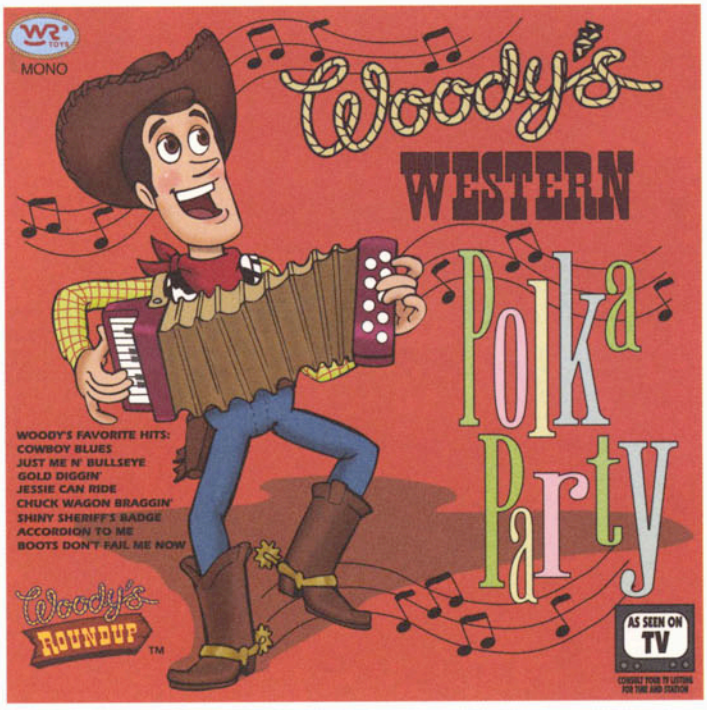


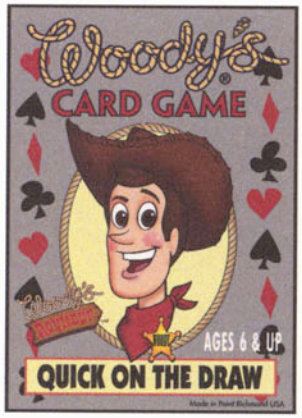
Woody's ROUNDUP

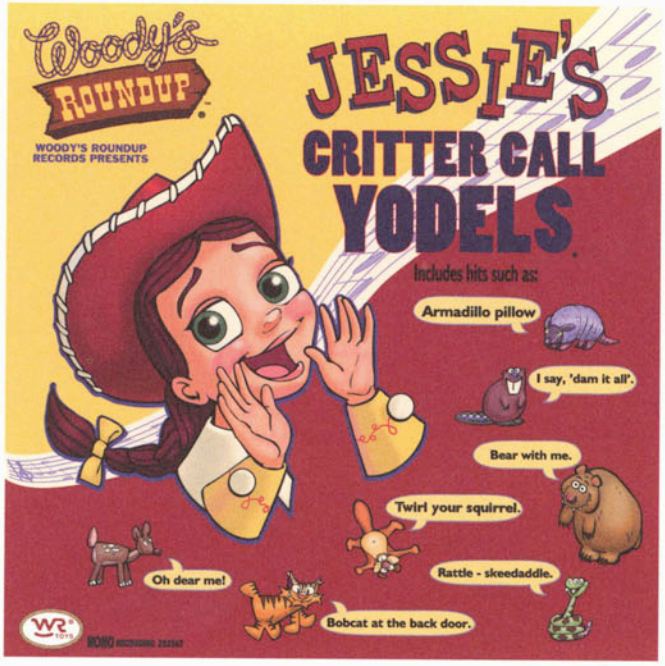
WOODY'S ROUNDUP

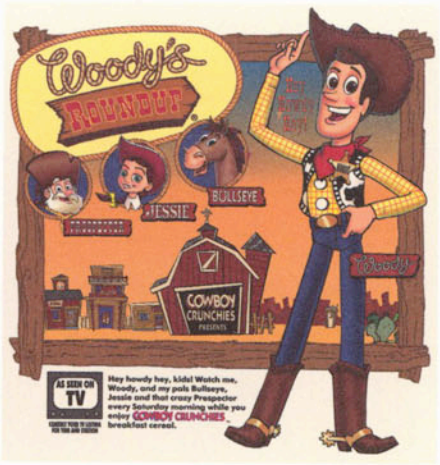


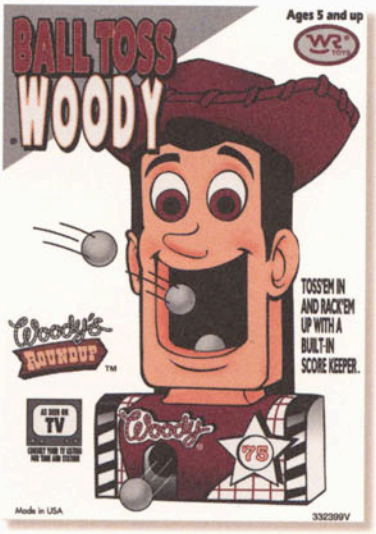


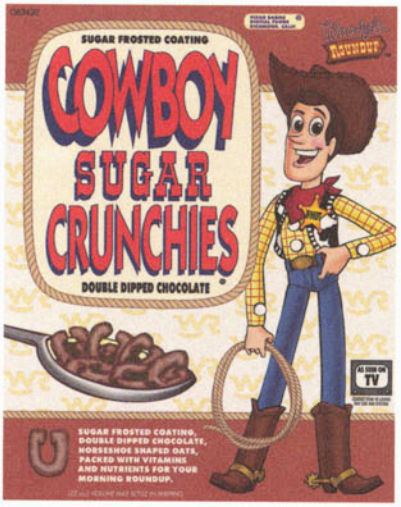



Woody's
CARD GAME
AGES 6 & UP
QUICK ON THE DRAW

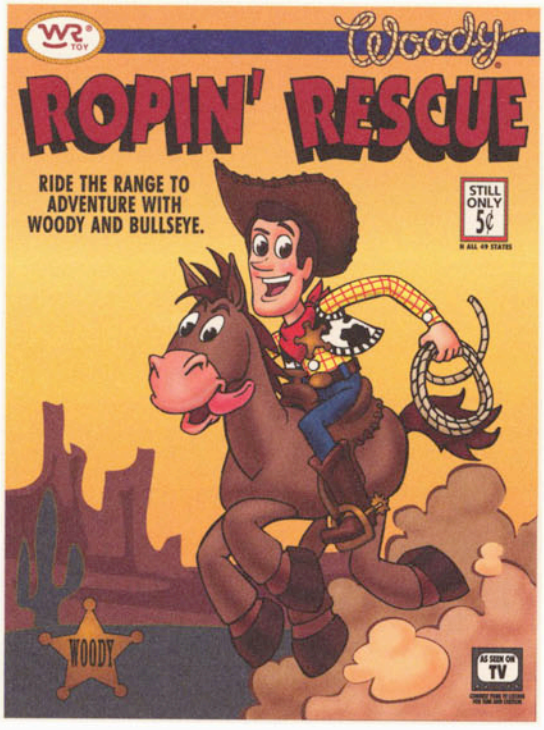

Woody's ROUNDUP
WOODY'S ROUNDUP RECORDS PRESENTS
JESSIE'S CRITTER CALL YODELS
Includes hits such as:
Armadillo pillow
I say, 'dam it all'.
Bear with me.
Twirl your squirrel.
Rattle - skeedaddle.
Oh dear me!
Bobcat at the back door.

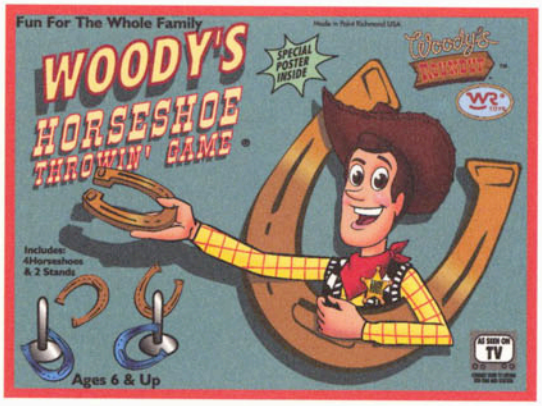

Woody's ROUNDUP
JESSIE
BULLSEYE
COWBOY CRUNCHIES
AS SEEN ON TV
Hey howdy hey, kids! Watch me, Woody, and my pals Bullseye, Jessie and that crazy Prospector every Saturday morning while you enjoy COWBOY CRUNCHIES breakfast cereal.

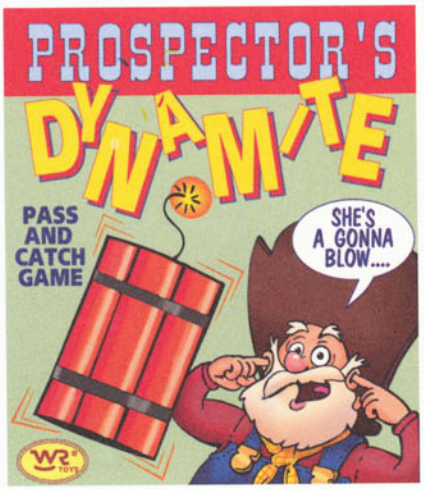

Ages 5 and up
BALL TOSS WOODY
TOSS'EM IN AND RACK'EM UP WITH A BUILT-IN SCORE KEEPER.
Woody's ROUNDUP
AS SEEN ON TV
Made in USA
332399V

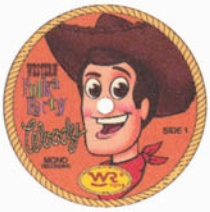

SUGAR FROSTED COATING
COWBOY SUGAR CRUNCHIES
DOUBLE DIPPED CHOCOLATE
AS SEEN ON TV
SUGAR FROSTED COATING, DOUBLE DIPPED CHOCOLATE, HORSESHOE SHAPED OATS, PACKED WITH VITAMINS AND NUTRIENTS FOR YOUR MORNING ROUNDUP.

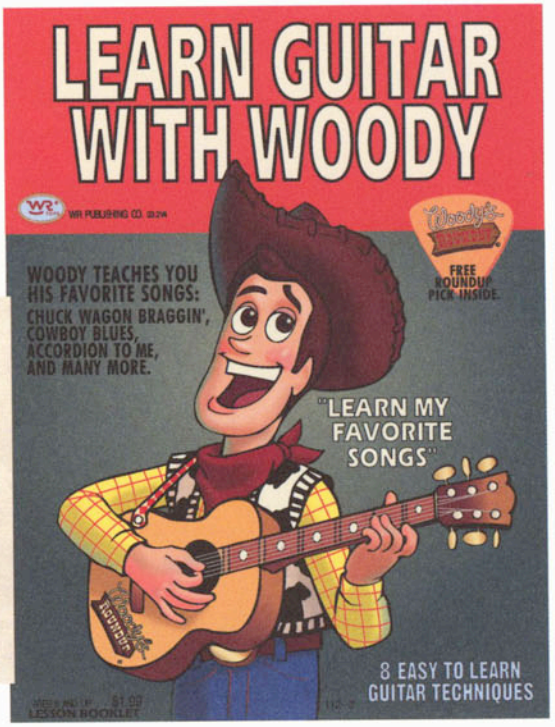
Woody's ROUNDUP
...the ROUNDUP TRIO
THE LITTLE BROWN JUG THAT COULD
Made in USA

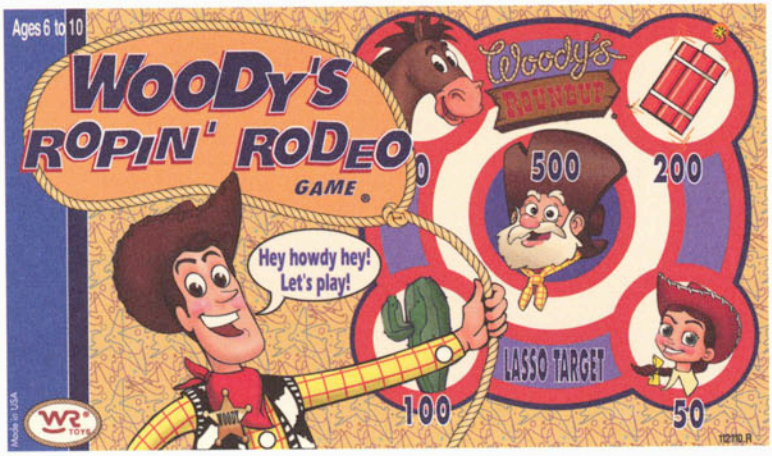

WR TOY
Woody
ROPIN' RESCUE
RIDE THE RANGE TO ADVENTURE WITH WOODY AND BULLSEYE.
STILL ONLY 5¢
IN ALL 49 STATES
WOODY
AS SEEN ON TV

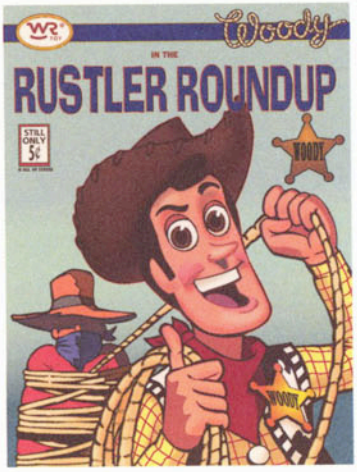

Fun For The Whole Family
WOODY'S HORSESHOE THROWIN' GAME
SPECIAL POSTER INSIDE
Woody's ROUNDUP
Includes: 4Horseshoes & 2 Stands
Ages 6 & Up
AS SEEN ON TV

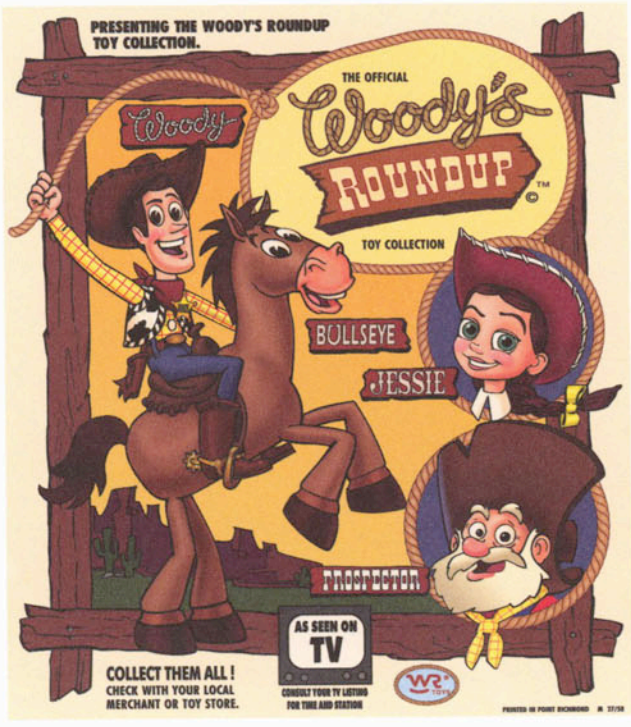

PROSPECTOR'S
DYNAMITE
PASS AND CATCH GAME
SHE'S A GONNA BLOW....




LEARN GUITAR WITH WOODY
WOODY TEACHES YOU HIS FAVORITE SONGS:
CHUCK WAGON BRAGGIN',
COWBOY BLUES,
ACCORDION TO ME,
AND MANY MORE.
FREE ROUNDUP PICK INSIDE.
"LEARN MY FAVORITE SONGS"
8 EASY TO LEARN GUITAR TECHNIQUES


Ages 6 to 10
WOODY'S ROPIN' RODEO GAME
Woody's ROUNDUP
Hey howdy hey! Let's play!
500
200
LASSO TARGET
100
50

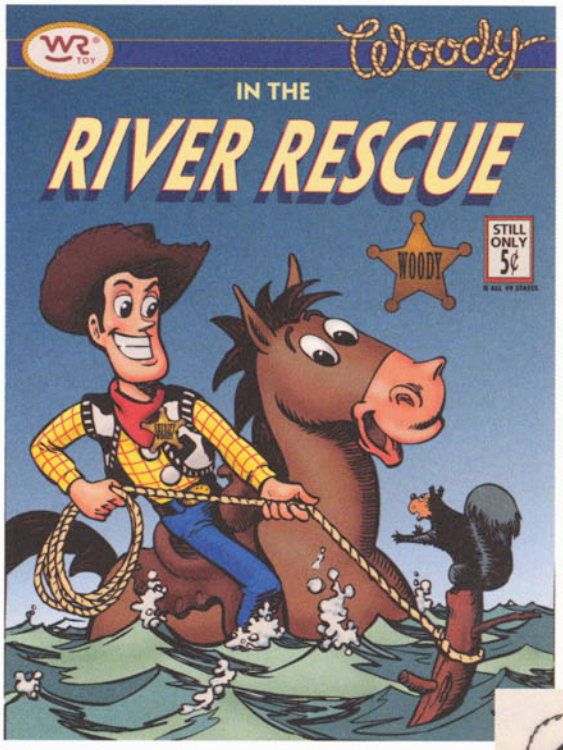

Woody
IN THE
RUSTLER ROUNDUP
STILL ONLY 5¢
WOODY

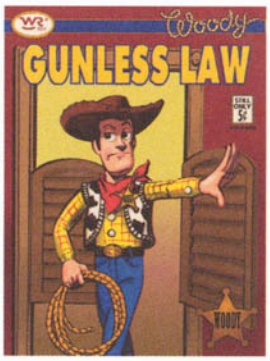

PRESENTING THE WOODY'S ROUNDUP TOY COLLECTION.
THE OFFICIAL
Woody's ROUNDUP
TOY COLLECTION
Woody
BULLSEYE
JESSIE
PROSPECTOR
AS SEEN ON TV
COLLECT THEM ALL!
CHECK WITH YOUR LOCAL MERCHANT OR TOY STORE.

BELT & BUCKLE

WATCH

BADGE & BUCKLE


Woody
IN THE
RIVER RESCUE
STILL ONLY 5¢
WOODY

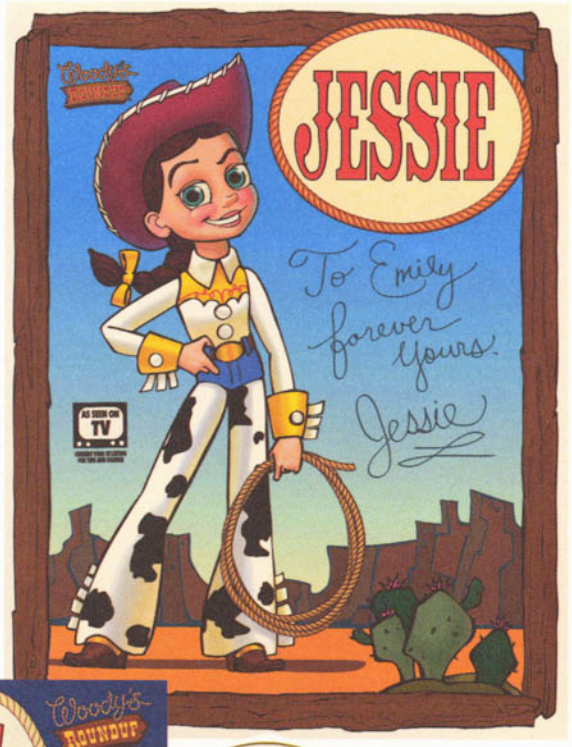

Woody
GUNLESS LAW
WOODY

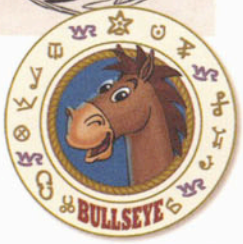
Woody

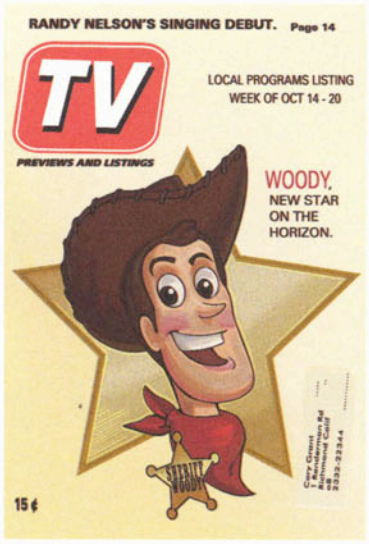
HEY HOWDY HEY!

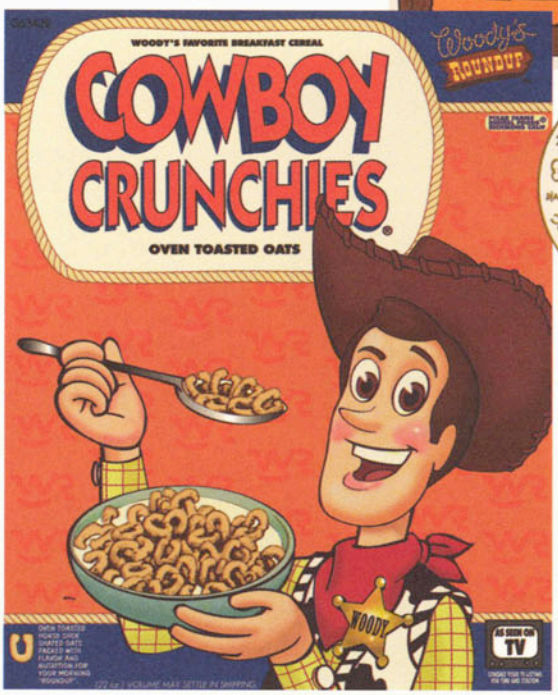
JESSIE

Hey
Howdy
Hey!
WOODY

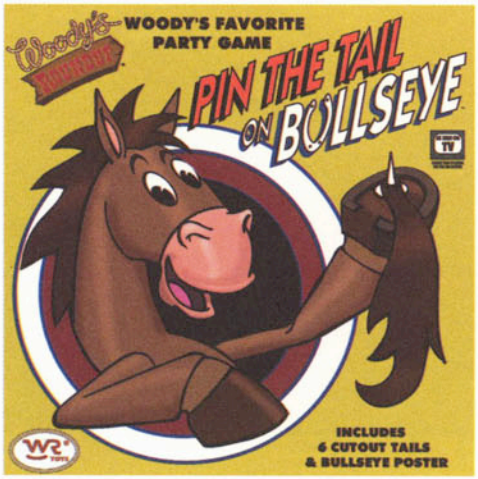

JESSIE
To Emily
forever
Yours.
Jessie
AS SEEN ON TV

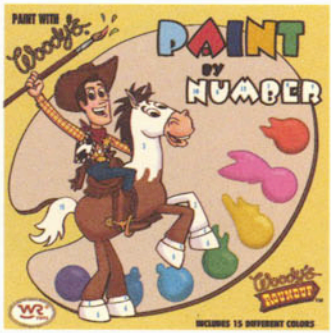

BULLSEYE

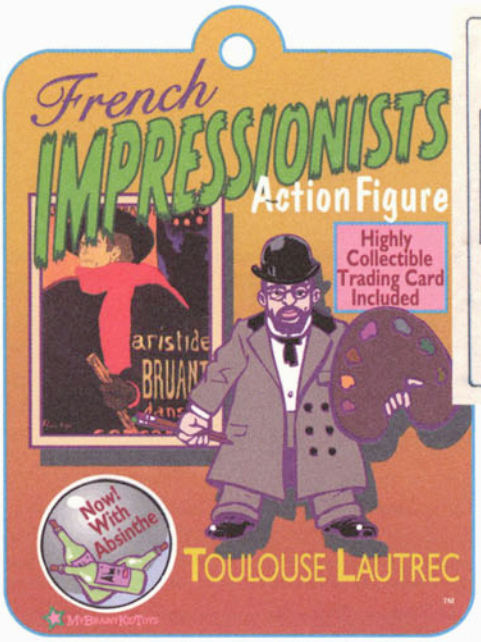

RANDY NELSON'S SINGING DEBUT. Page 14
TV
PREVIEWS AND LISTINGS
LOCAL PROGRAMS LISTING
WEEK OF OCT 14 - 20
WOODY,
NEW STAR
ON THE
HORIZON.
15¢


WOODY'S FAVORITE BREAKFAST CEREAL
Woody's ROUNDUP
COWBOY CRUNCHIES
OVEN TOASTED OATS
AS SEEN ON TV
WOODY

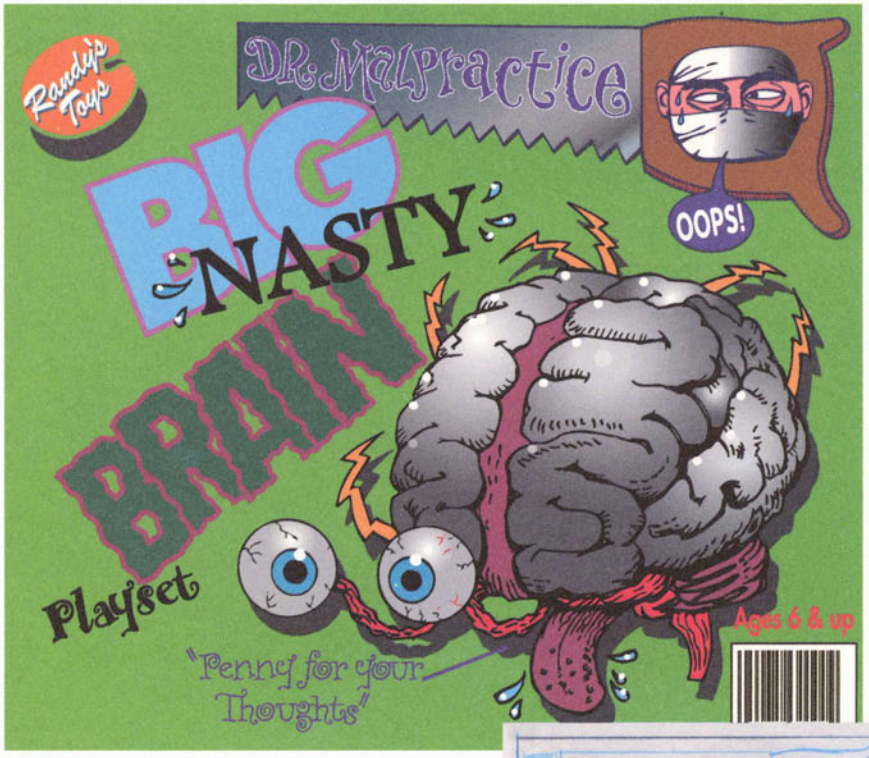
PROSPECTOR

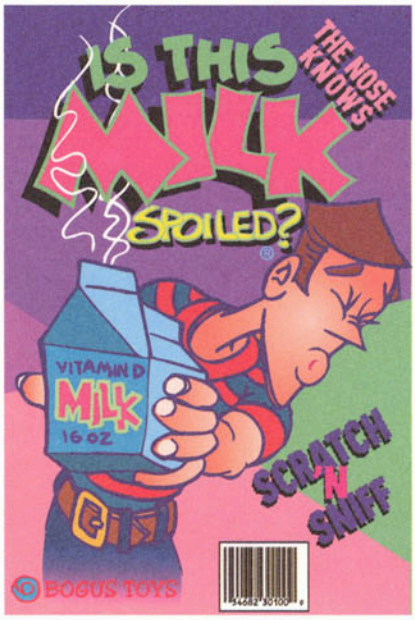

Woody's ROUNDUP
WOODY'S FAVORITE
PARTY GAME
PIN THE TAIL
ON BULLSEYE
AS SEEN ON TV
INCLUDES
6 CUTOUT TAILS
& BULLSEYE POSTER

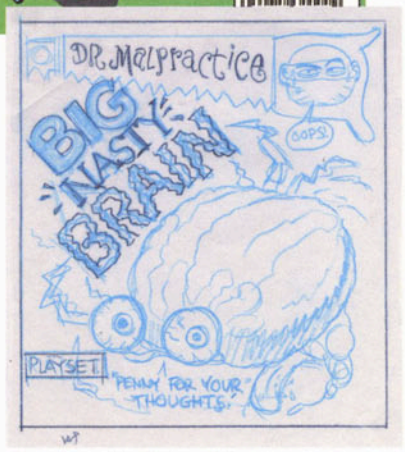

PAINT WITH
Woody's
PAINT
BY
NUMBER
Woody's ROUNDUP
INCLUDES 15 DIFFERENT COLORS

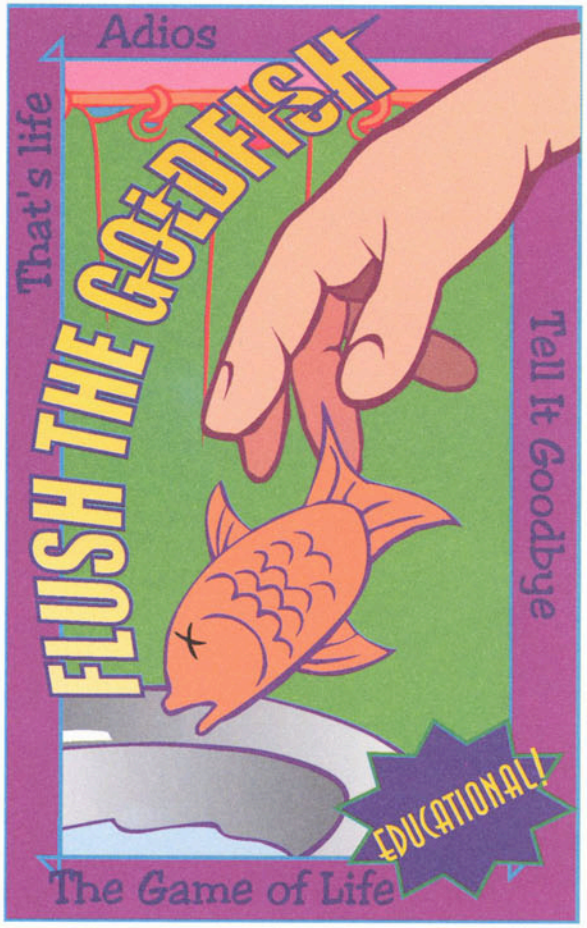


TOY BARN TOYS

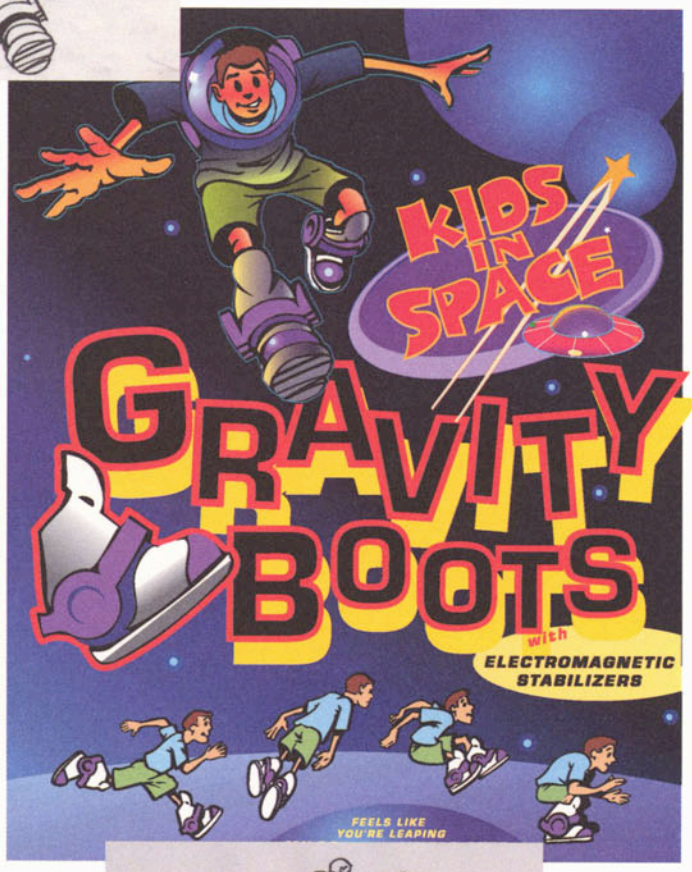


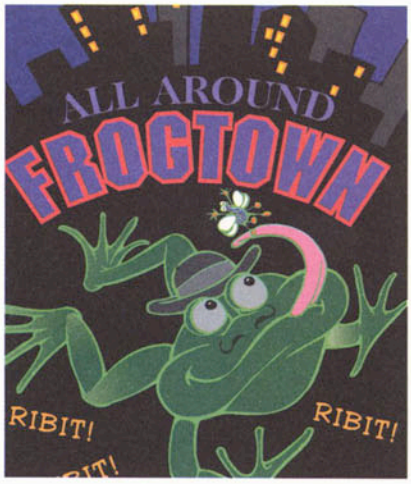





Adios
That's life
FLUSH THE GOLDFISH
Tell It Goodbye
EDUCATIONAL!
The Game of Life

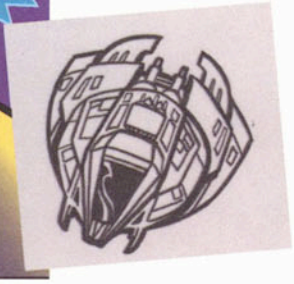
DART GUN
Fun for everyone!

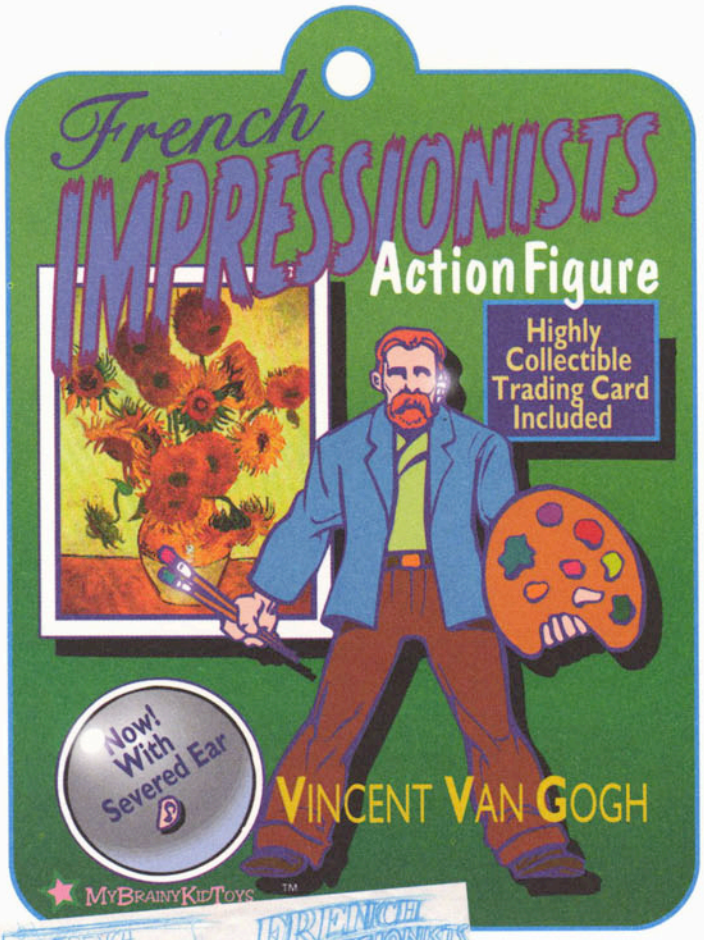

KIDS IN SPACE
GRAVITY BOOTS
with
ELECTROMAGNETIC STABILIZERS
FEELS LIKE YOU'RE LEAPING


ALL AROUND
FROGTOWN
RIBIT!
RIBIT!

Basically He's an
Idea
WOW!
WHAT A CONCEPT!
BRILLIANT!
ACTION FIGURE
Man

KIDS IN SPACE
PHASE AMPLIFYING
WRIST LASER
with
GAMMA INCAPACITATORS
CAUTION:
DO NOT AIM AT
HUMAN RETINAS

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Action Figure
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VINCENT VAN GOGH
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TRAMPO
JR.
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"JUNIOR! BEHAVE YOURSELF!!"
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ALWAYS WEAR A HELMET, KNEE PADS, ELBOW PADS AND SPECIAL JUMPING SHOES. (NOT INCLUDED)

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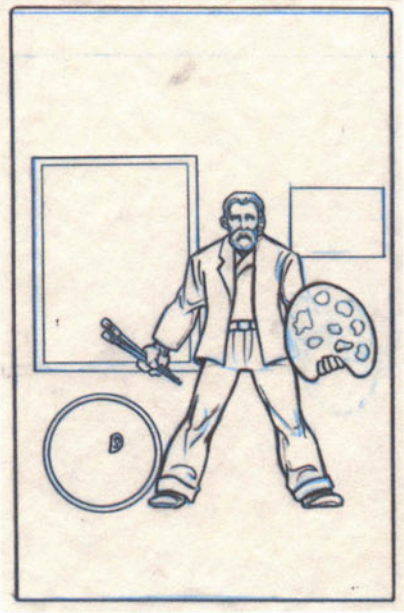

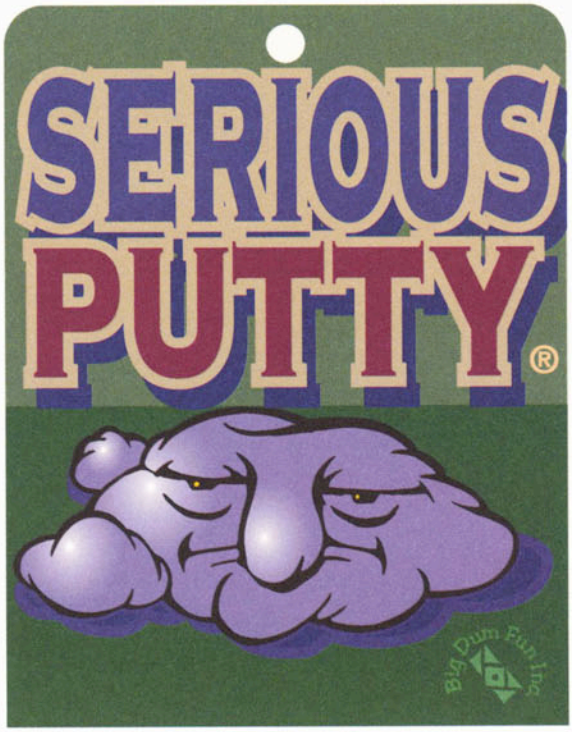
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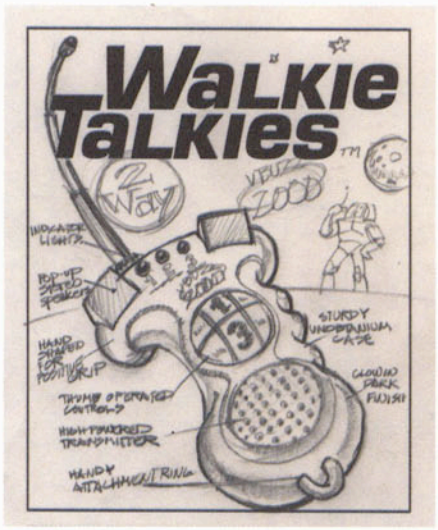
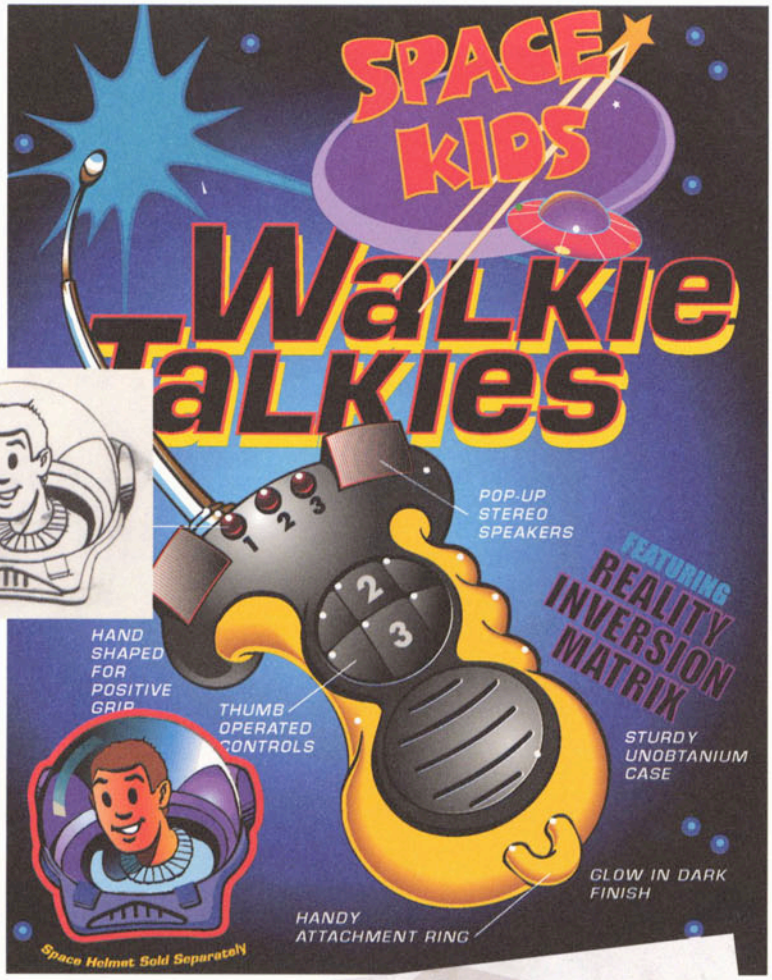
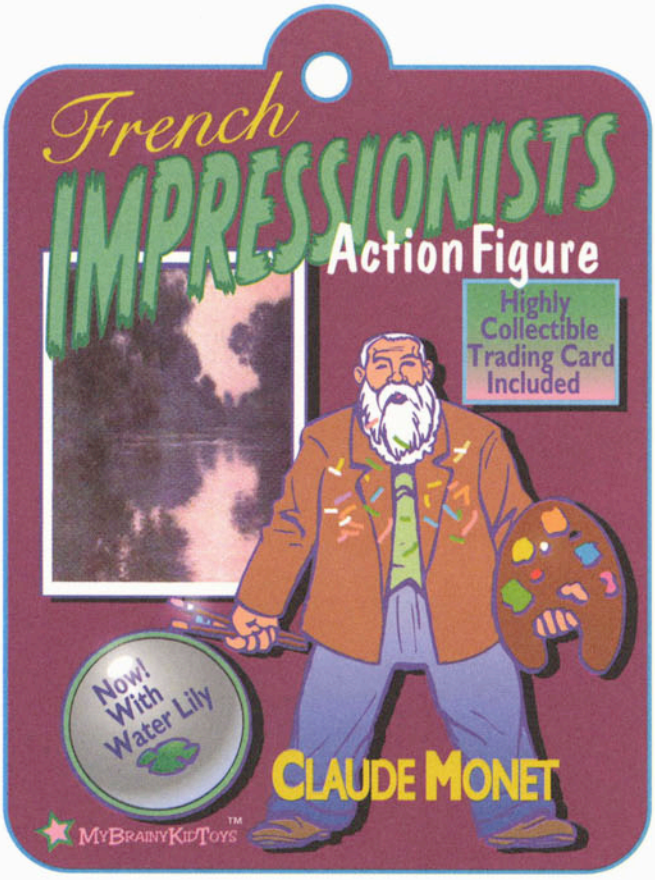
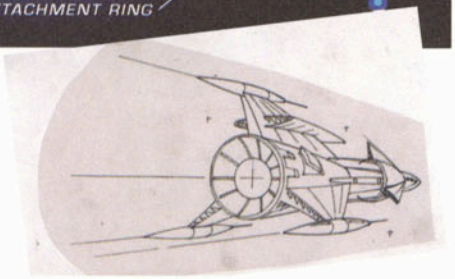
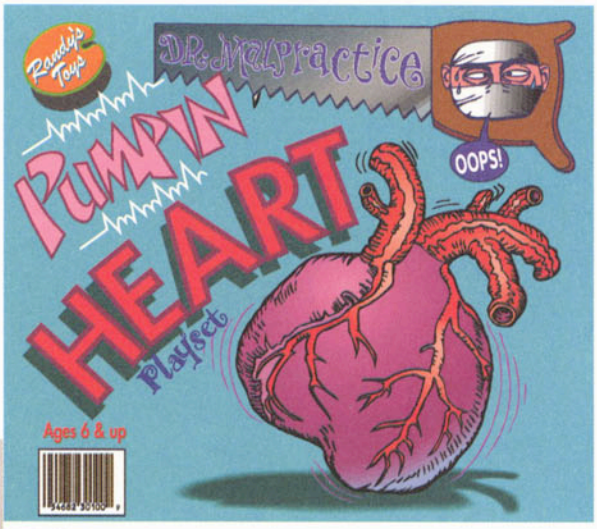

Walkie Talkies
2 Way
STURDY UNOBTANIUM CASE
HAND SHAPED FOR POSITIVE GRIP
THUMB OPERATED CONTROLS
HIGH TRACKED TRANSMITTER
HANDY ATTACHMENT RING


SPACE KIDS
Walkie Talkies
POP-UP STEREO SPEAKERS
FEATURING REALITY INVERSION MATRIX
HAND SHAPED FOR POSITIVE GRIP
THUMB OPERATED CONTROLS
STURDY UNOBTANIUM CASE
GLOW IN DARK FINISH
HANDY ATTACHMENT RING
Space Helmet Sold Separately


French
IMPRESSIONISTS
Action Figure
Highly Collectible Trading Card Included
Now! With Water Lily
CLAUDE MONET
MyBrainyKidToys




Randy's Toys
Dr. Malpractice
PUMPIN' HEART
Playset
OOPS!
Ages 6 & up

PUMPIN' HEART

The concept and development art created for our films is a vital, seldom-seen part of our filmmaking process. We are delighted to share with you this rare collection of artwork.

This sketchbook is the inspiration of John Lasseter, the director of *Toy Story* and *Toy Story 2*. Under the guidance of John and *Toy Story 2* co-directors Ash Brannon and Lee Unkrich, production designers Ralph Eggleston, Jim Pearson and Bill Cone elicited their teams' finest work to bring that vision to life.

Pixar's enthusiastic production staff was led by Jim Pearson, who worked with Violeta Diaz to create a layout and book design that would suit Pixar's unique format needs. Leeann Alameda organized the intensive process, handling compilation and assembly of art. Ed Chen skillfully prepared countless images. Katherine Sarafian oversaw the Pixar team's book production efforts. Ken Shue and Eric Huang at Disney Publishing, who have been advocates of a sketchbook since they first saw *Toy Story*, persevered to make the book possible. Phil Zuckerman at Applewood Books and Hunter Heller at Disney Publishing lent their unflinching support.

Pixar archivists Jonas Rivera and Alice Rosen were invaluable in helping to find the original artwork from the films. Vivian Procopio at Disney's Animation Research Library was instrumental in pulling together images. Additional digital image support and finishing touches were provided by Tim Lewis and Brent Ford at Disney Publishing.

This sketchbook has been a labor of love. We hope you will enjoy the art of *Toy Story* and *Toy Story 2* for years to come.

ED CATMULL
EXECUTIVE PRODUCER, *TOY STORY*

SARAH MCARTHUR
EXECUTIVE PRODUCER, *TOY STORY 2*

TOY STORY

Executive Producers ..... EDWIN CATMULL, STEVEN JOBS
Supervising Technical Director ..... WILLIAM REEVES
Music by ..... RANDY NEWMAN
Songs Written & Performed by ..... RANDY NEWMAN
Original Story by ..... JOHN LASSETER, PETE DOCTER, ANDREW STANTON, JOE RANFT
Screenplay by ..... JOSS WHEDON, ANDREW STANTON, JOEL COHEN and ALEC SOKOLOW
Produced by ..... RALPH GUGGENHEIM, BONNIE ARNOLD
Directed by ..... JOHN LASSETER
Art Director ..... RALPH EGGLESTON
Film Editors ..... ROBERT GORDON, LEE UNKRICH
Supervising Animator ..... PETE DOCTER
Sound Design ..... GARY RYDSTROM
Production Supervisor ..... KAREN ROBERT JACKSON

CAST

Woody ..... TOM HANKS
Buzz Lightyear ..... TIM ALLEN
Mr. Potato Head ..... DON RICKLES
Slinky Dog ..... JIM VARNEY
Rex ..... WALLACE SHAWN
Hamm ..... JOHN RATZENBERGER
Bo Peep ..... ANNIE POTTS
Andy ..... JOHN MORRIS
Sid ..... ERIK VON DETTEN
Mrs. Davis ..... LAURIE METCALF
Sergeant ..... R. LEE ERMEY
Hannah ..... SARAH FREEMAN
TV Announcer ..... PENN JILLETTE

"You've Got a Friend in Me" (End Title)

Written and Produced by ..... RANDY NEWMAN
Performed by ..... RANDY NEWMAN & LYLE LOVETT
Executive Music Producer ..... CHRIS MONTAN

Story

Story Supervisors

JOE RANFT, ROBERT LENCE

Story Coordinator

SUSAN E. LEVIN

Story Artists

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Directing Animators ..... RICH QUADE, ASH BRANNON
Animation Managers ..... TRIVA VON KLARK, BZ PETROFF

Animators

MICHAEL BERENSTEIN, KIM BLANCHETTE, COLIN BRADY, DAVEY CROCKETT FEITEN, ANGIE GLOCKA, REX GRIGNON, TOM K. GURNEY, JIMMY HAYWARD, HAL T. HICKEL, KAREN KISER, ANTHONY B. LAMOLINARA, GUIONNE LEROY, BUD LUCKEY, LES MAJOR, GLENN MCQUEEN, MARK OFTEDAL, JEFF PIDGEON, JEFF PRATT, STEVE RABATICH, ROGER ROSE, STEVE SEGAL, DOUG SHEPPECK, ALAN SPERLING, DOUG SWEETLAND, DAVID TART, KEN WILLARD (1959-1995)

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SHAWN P. KRAUSE, MATT LUHN, BOB PETERSON, ANDREW SCHMIDT, MAUREEN E. WYLIE

Animation Check ..... HEATHER KNIGHT
Animation Coordinator ..... MAUREEN E. WYLIE

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Technical Department Manager ..... ALLISON SMITH MURPHY

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Modeling & Shading Coordinator ..... DEIRDRE WARIN
Shader & Visual Effects Supervisor ..... THOMAS PORTER

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Lighting Supervisors ..... SHARON CALAHAN, GALYN SUSMAN

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Designer/Illustrator ..... BOB PAULEY
Lead CG Painter ..... TIA W. KRATTER
CG Painter/Designer ..... WILLIAM CONE
CG Painter ..... ROBIN COOPER
Sculptors ..... SHELLEY DANIELS LEKVEN, NORM DECARLO

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Karen Robert Jackson
EXECUTIVE PRODUCER ..... Sarah McArthur
ORIGINAL STORY by ..... John Lasseter
Pete Docter
Ash Brannon
Andrew Stanton
SCREENPLAY by ..... Andrew Stanton
Rita Hsiao
Doug Chamberlin & Chris Webb
VOICE OF "WOODY" ..... Tom Hanks
VOICE OF "BUZZ LIGHTYEAR" ..... Tim Allen
MUSIC by ..... Randy Newman
FILM EDITORS ..... Edie Bleiman
David Ian Salter
Lee Unkrich
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EXECUTIVE MUSIC PRODUCER ..... Chris Montan
CASTING by ..... Ruth Lambert, C.S.A.
Mary Hidalgo

CAST
WOODY ..... Tom Hanks
BUZZ LIGHTYEAR ..... Tim Allen
JESSIE ..... Joan Cusack
PROSPECTOR ..... Kelsey Grammer
MR. POTATO HEAD ..... Don Rickles
SLINKY DOG ..... Jim Varney
REX ..... Wallace Shawn
HAMM ..... John Ratzenberger
BO PEEP ..... Annie Potts
AL MC WHIGGIN ..... Wayne Knight
ANDY ..... John Morris
ANDY'S MOM ..... Laurie Metcalf
MRS. POTATO HEAD ..... Estelle Harris
SARGE ..... R. Lee Ermey
BARBIE ..... Jodi Benson
THE CLEANER ..... Jonathan Harris
WHEEZY ..... Joe Ranft
EMPEROR ZURG ..... Andrew Stanton
ALIENS ..... Jeff Pidgeon

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ART DEPARTMENT MANAGER ..... Matt White
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ART DEPARTMENT PRODUCTION ASSISTANTS
Alice Rosen, Lilah Moscoso

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SENIOR LAYOUT ARTIST ..... Craig Good

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SET DRESSING DEPARTMENT COORDINATOR
Trish Carney

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Brad Winemiller, Daniel Campbell

ADDITIONAL LAYOUT
Stephanie Andrews, Christine Z. Chang, Kevin Edwards, Ross Stevenson, Matt Uhry

ADDITIONAL SET DRESSING
Robert Anderson, Wade Childress, Mark Sanford, Adam Schnitzer

LAYOUT DEPARTMENT COORDINATOR
Heather Field

LAYOUT & SET DRESSING PRODUCTION ASSISTANT
Gina Trbovich

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ANIMATION MANAGERS
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Mark Nielsen, Vanessa Ross
MODELING ARTISTS
Mark Adams, Paul Aichele, Lauren Alpert, Stephanie Andrews, James Bancroft, Lawrence D. Cutler, Ruieta DaSilva, Cynthia Dueltgen, Damir Frkovic, Christian Hoffman, Rob Jensen, Stephen King, Michael Krummhoefener, Kelly O'Connell, Eileen O'Neill, Guido Quaroni, Dale Ruffolo, Don Schreiter, Gary Schultz, Skeggi Thormar, Patrick Wilson

SHADING TEAM
SHADING ARTISTS
John B. Anderson, David Batte, Kirk Bowers, Kevin Edwards, Mark Fontana, Michael Fu, Larry Gritz, Ben Jordan, Michael R. King, Stephen King, Andrew Kinney, Ana Lacaze, Daniel McCoy, Eileen O'Neill, Keith Olenick, John Singh Pottebaum, Mitch Prater, Guido Quaroni, Brian M. Rosen, Steve Upstill, David Valdez, John Warren

ADDITIONAL MODELING & SHADING
Michael Fong, Patrick James, Steve May, Steve McGrath, Tim Milliron, Cynthia "Kiki" Pettit, James Rose
MODELING & SHADING PRODUCTION ASSISTANT
Alexandria Devon Zech

HUMAN TEAM
HUMAN TEAM LEAD TDs
Lisa Forssell, Mitch Prater
HUMAN MODELING & SHADING TEAM
Jason Bickerstaff, Lawrence D. Cutler, Mark Fontana, Ben Jordan, Leo Hourvitz, Sonoko Konishi, Michael Krummhoefener, Guido Quaroni, John Warren, Kimberly White, Adam Woodbury

LIGHTING TEAM
LIGHTING DEPARTMENT MANAGERS
Terry McQueen, Molly Naughton
MASTER LIGHTING
Lauren Alpert, Jun Han Cho, Cynthia Dueltgen, Danielle Feinberg, Deborah R. Fowler, Christian Hoffman, Jesse Hollander, Rob Jensen, Ana Lacaze, Ken Lao, Joyce Powell, Kimberly White
LIGHTING ARTISTS
Jason Bickerstaff, Kirk Bowers, Onny Carr, Kevin Edwards, Kurt Fleischer, Reid Gershbein, Michael B. Johnson, Jongo, Sonoko Konishi, Ivo Kos, Janet Lucroy, Craig McGillivray, Kelly O'Connell, Eileen O'Neill, Brandon Onstott, Cynthia "Kiki" Pettit, Seth Piezas, John Singh Pottebaum, Sudeep Rangaswamy, Dale Ruffolo, Bill Sheffler, Allison Torres, Tien Truong, John Warren, Patrick Wilson, Brian Daniel Young
ADDITIONAL LIGHTING & SUPPORT
Kurt Fleischer, Mark Fontana, Tien Truong, Clay Welch
LIGHTING DEPARTMENT COORDINATOR ..... Tom Kim

EFFECTS TEAM
EFFECTS DEPARTMENT MANAGER ..... Kelly T. Peters
EFFECTS TECHNICAL ARTISTS
John B. Anderson, Lawrence D. Cutler, Lisa Forssell, Michael Fu, Leo Hourvitz, Jeffrey Jay, Ewan Johnson, Stephen King, Bill Polson, Guido Quaroni, Brad Winemiller
ADDITIONAL EFFECTS
David Baraff, Andrew Kinney, Brian M. Rosen, Eliot Smyrl, Andy Witkin

RENDERING TEAM
RENDERING MANAGER ..... Victoria Jaschob
RENDER TDs
Byron Bashforth, Patrick James, Thomas Jordan, Steve Kani, Andrew Kinney, Jack Paulus, James Rose, Scotty Sharp, Jerome Strach, Christine Waggoner
RENDERING DEPARTMENT COORDINATOR ..... Jen Kinavey
TECHNICAL DEPARTMENT PRODUCTION ASSISTANT
Jennifer Kinney

ANIMATION SOFTWARE DEVELOPMENT
DIRECTOR OF ANIMATION SOFTWARE DEVELOPMENT
Darwyn Peachey
TEAM LEADERS
Tony Derose, Kurt Fleischer, Peter Nye, Arun Rao, Wayne Wooten

SOFTWARE ENGINEERS
John Alex, Brad Andalman, David Baraff, Ronen Barzel, Malcolm Blanchard, Mike Cancilla, Bena Currin, Thomas Hahn, Kitt Hirasaki, Jisup Hong, Michael B. Johnson, Steve Johnson, Michael Kass, Chris King, Eric Lebel, Bruce Perens, Chris Perry, John Singh Pottebaum, Sudeep Rangaswamy, Drew TTV Rogge, Michael Shantzis, Heidi Stettner, Robert W. Sumner, Dirk Van Gelder, Karon Weber, Andy Witkin, Audrey Wong

DOCUMENTATION & SUPPORT
Tom Deering, Nghi "Tin" Nguyen, Kay Seirup
RENDERING SOFTWARE DEVELOPMENT
DIRECTOR OF RENDERING SOFTWARE DEVELOPMENT
Anthony A. Apodaca
SPECIAL RENDERING TECHNIQUES AND SUPPORT
Craig Kolb, Tom Lokovic

SOFTWARE ENGINEERS
Phil Beffrey, Sam "Penguin" Black, Loren Carpenter, Rob Cook, Tom Duff, Larry Gritz, David Laur, Dan Lyke, Shaun Oborn, Matt Pharr, Tien Truong, Mark VandeWettering, Eric Veach

CAMERA
CAMERA DEPARTMENT MANAGER.....Perrin Cutting
CAMERA SUPERVISOR.....Louis Rivera
CAMERA SOFTWARE & ENGINEERING
John Hee Soo Lee, Matthew Martin, Drew TTV Rogge
CAMERA TECHNICIANS
Don Conway, Jeff Wan

PHOTOSCIENCE MANAGERS
James Burgess, David DiFrancesco
DEPARTMENT ADMINISTRATOR.....Beth Sullivan

PRODUCTION
PRODUCTION SCHEDULER.....Sarah Jo Daughters
PRODUCTION ACCOUNTANT.....Catherine Roehl
DIRECTOR OF PRODUCTION FINANCE.....Robert Taylor
DISNEY PRODUCTION REPRESENTATIVE.....Marci Levine
ASSISTANT PRODUCTION ACCOUNTANT.....Sandy McCoy
EXECUTIVE ASSISTANT TO THE DIRECTOR.....Heather Schmidt-Feng
EXECUTIVE ASSISTANT TO THE CO-DIRECTORS.....Alethea Harampolis
EXECUTIVE ASSISTANT TO THE PRODUCERS.....Rachel Raffael-Gates
EXECUTIVE ASSISTANT TO THE
EXECUTIVE PRODUCER.....Debbie L. O'Keeffe
PRODUCTION OFFICE COORDINATOR.....A.J. Riebli
PRODUCTION OFFICE ASSISTANTS
Lance Martin, Scott Smith
ADDITIONAL PRODUCTION SUPPORT
Mari Aizawa, Mark Axton, Jan Forman, Tomoko H. Ferguson, Darcy Finlay, Rachel Hannah, Bahram H. Hooshmand, Danielle Kent, Hoon H. Kim, John Levin, Steve Liu, Adrian Ochoa, Greg Poulios, Martha Richter, Kristi Russell, Andra Smith, Deirdre Warin, Hana Yoon

ADDITIONAL ART & TECHNICAL CONSULTATION
Tia W. Kratter, Bob Pauley, Rick Sayre

INFORMATION SYSTEMS
DIRECTOR OF COMPUTER OPERATIONS.....Greg Brandeau
MANAGERS
Erik Forman, Alisa Gilden, Warren Hays, Duncan Keefe, Todd N. Lloyd, Michael O'Brien

SYSTEMS ADMINISTRATORS & SUPPORT
Neftali "El Magnifico" Alvarez, Nathan Ardaiz, George Bagtas Jr., Adam Beeman, Bryan Bird, Lars R. Damerow, Michael Donnelly, Edward Escueta, Patrick Guenette, Jason Hendrix, Ling Hsu, Ken Jonathan JJ Huey, Jason "Jayfish" Hull, Peter Kaldis, Cory Knox, Gregory Yong Paik, Kristina Perez, May Pon, Manny Ponce, Josh Qualtieri,, Edgar Quiñones, Auburn "Aubie" Schmidt, M.T. Silvia, Nelson Siu, Edilberto Soriano Jr., Alex Stahl, Gene Takahashi, Andy Thomas, Christopher C. Walker, Jay Weiland, Dallas Wisehaupt

POST PRODUCTION
POST PRODUCTION SUPERVISOR.....Paul Cichocki
SENIOR MANAGER OF EDITORIAL
& POST PRODUCTION.....Bill Kinder
POST PRODUCTION ASSISTANT.....Timothy Sorensen

POST PRODUCTION SOUND SERVICES PROVIDED BY
SKYWALKER SOUND
A division of Lucas Digital Ltd., LLC
Marin County, California

RERECORDING MIXERS.....Gary Rydstrom, Gary Summers
ORIGINAL DIALOGUE MIXER.....Doc Kane
SUPERVISING SOUND EDITOR.....Michael Silvers
SOUND DESIGN.....Gary Rydstrom, Tom Myers
SOUND EFFECTS EDITOR.....Teresa Eckton, Shannon Mills
FOLEY EDITORS.....Mary Helen Leasman, Susan Sanford
SUPERVISING ASSISTANT SOUND EDITOR.....Marcie Romano
ASSISTANT SOUND EFFECTS EDITOR.....Al Nelson
ASSISTANT SOUND DESIGN.....Shannon Mills
SOUND INTERN.....Lisa Fowle
RE-RECORDIST.....Ronald G. Roumas, Jennifer Barin
MIX TECHNICIANS.....Jurgen Scharpf, Juan Peralta
MACHINE ROOM OPERATORS.....Gabriel Guy, Sean Landeros
DIGITAL TRANSFER.....Jonathan Greber, Joan Malloch, Christopher Barron
VIDEO SERVICES.....Christian von Burkleo, John "J.T." Torrijos
FOLEY ARTISTS.....Dennie Thorpe, Jana Vance
FOLEY MIXER.....Tony Eckert
FOLEY RECORDIST.....Frank "Pepe" Merel
ADDITIONAL ADR VOICE CASTING.....Mickie McGowan

ADDITIONAL VOICES
Jack Angel, Bob Bergen, Mary Kay Bergman, Sheryl Bernstein, Rodger Bumpass, Corey Burton, Rachel Davey, Debi Derryberry, Jessica Evans, Bill Farmer, Pat Fraley, Jess Harnell, John Lasseter, Nicolette Little, Sherry Lynn, Mickie McGowan, Andi Peters, Jeff Pidgeon, Phil Proctor, Jan Rabson, Carly Schroeder, Madylin Sweeten, Hannah Unkrich, Lee Unkrich

"Woody's Roundup" Theme Song
Music and Lyrics by.....Randy Newman
Performed by.....Riders in the Sky

"When She Loved Me"
Music and Lyrics by.....Randy Newman
Performed by.....Sarah McLachlan

"You've Got A Friend in Me "
Music and Lyrics by.....Randy Newman
"Wheezy's Version" Performed by.....Robert Goulet
Instrumental Version Performed by.....Tom Scott

Sarah McLachlan appears courtesy of Arista Records, Inc. and Nettwerk Productions, Inc.
Tom Scott appears courtesy of Windham Hill Jazz

ORCHESTRATIONS BY.....Jonathan Sacks, Ira Hearshen, Randy Newman
MUSIC RECORDED AND MIXED BY.....Frank Wolf
SUPERVISING MUSIC EDITOR.....Bruno Coon
MUSIC EDITOR.....Lisa Jaime
ASSISTANT MUSIC EDITOR.....Brenda Heins
DIRECTOR, MUSIC PRODUCTION.....Andrew Page
MUSIC PRODUCTION MANAGER.....Tom MacDougall
MUSIC PRODUCTION COORDINATOR.....Deniece LaRocca
ADDITIONAL RECORDING BY.....Greg Reely
ADDITIONAL ARRANGEMENTS BY.....Bruno Coon
ORCHESTRA CONTRACTOR.....Sandy De Crescent
VOCAL CONTRACTOR.....Luana Jackman
MUSIC PREPARATION.....Jo Ann Kane Music Service
MUSIC RECORDED AT.Sony Pictures Studios, O'Henry Sound Studios, The Warehouse Studio
MUSIC MIXED AT.....Signet Soundelux Studios

Additional Dialogue Recording
Bob Baron, Bill Higley, John McGleena, Brian Reed

Color Timer.....Dale Grahn
Negative Cutting by.....Buena Vista Negative Cutting
Optical Titles.....Buena Vista Imaging
Title Design.....Susan Bradley

THANKS TO EVERYONE AT PIXAR WHO SUPPORTED THIS PRODUCTION:

DIRECTOR OF FINANCE & CONTROLLER.....Sarah Flatley

FINANCE AND ADMINISTRATION
Mary DeCola, Marty Eshoff, John Lansberry, Kirsten E. Radzikowski, Kathi Keeton, Ellen Fair, Linda McCampbell, Tim Glass, Mark Frazitta, Kenny Condit, Jim Ferrucci, CeCe Heimans, Melinda Jackson, Sue Williams, Susan Gatrill, Cheryl Murata, Bryn Fletcher, Andrea Nordemann, Kim Kelley

CREATIVE RESOURCES & MARKETING
Katherine Sarafian, Leeann Alameda, Kim Cannon, Edward Chen, Margaret G. Davis, Karen Dufilho, Kathleen Handy, David R. Haumann, Jonas Rivera, Clay Welch

FACILITIES
Tom Carlisle, Craig Payne, Christian Damerow, Ian Evans, Brian Trainor, Patricia Bavuso, Annaliza Constantino, Joni Superticioso

HUMAN RESOURCES
Shelby Cass, Lisa Ellis, Ed Martin, Elyse Klaidman, Andrew Lyndon, Randy Nelson, Diane Phillips, Sangeeta Prashar, Nina Sealander

PURCHASING & RELOCATION
Dennis "DJ" Jennings, Amy Ellenwood

PRODUCTION BABIES
Akira, Alice, Andrew, Anna Livia, Ben, Clio, Cory, Eli, Elizabeth, Eric, Ethan, Grace, Itai, Jack, Katie, Kevin, Kolya, Madeleine, Margot, Mary, McKinley, Micaela, Natalya, Nicholas, Oliver, Owen, Robin, Sierra, Wyatt

Computer Systems for Final Rendering
Sun Microsystems, Inc.

Interactive
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3-D Modeling Software.....Alias/Wavefront
2-D Paint Software.....Interactive Effects, Inc.
Network Equipment.....Cisco Systems
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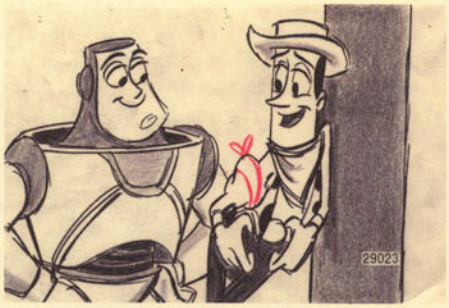
Processing by.....Monaco Labs
Prints by.....Technicolor®
Produced and Distributed on.....Eastman Film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